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## THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

THE WEEKLY NEWSPAPER FOR PHARMACY and all sections of the drug, pharmaceutical, fine chemical, cosmetic, and allied industries.

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## CHEMIST AND DRUGGIST

Volume 184

JULY 10, 1965

No. 4456

## **National Health Service**

#### NEW GROUP OF ADVISERS

THE Minister of Health (Mr. Kenneth Robinson) announced on July 5 the names of nine people who have agreed to constitute a small informal group to advise him on the long-term development of the National Health Service and the relationship between its component parts.

The members of the group are: Dr. B. Abel-Smith (London School of Economics and Political Science); Professor W. J. H. Butterfield (Guy's Hospital Medical School); Sir Edward Collingwood (chairman, Central Health Services Council and Newcastle Regional Hospital Board); Mr. G. C. Godber (Clerk of Shropshire County Council); Mr. R. Huws Jones (principal, National Institute for Social Work Training): Sir Peter Medawar (director, National Institute for Medical Research); Professor J. N. Morris (social medicine research unit, Medical Research Council); Professor M. Roth (Newcastle University); Miss M. Scott Wright (matron, Middlesex Hospital). The Ministry of Health states that the formation of the group will not prejudice the use of the existing advisory machinery already at the Minister's disposal. Members of the group are to advise the Minister on a personal and informal basis and he expects that they will tender advice both collectively and individually.

## Properties of Powders WORK AT WARREN SPRING LABORATORY

WORK carried out at the Warren Spring Laboratory that should contribute to an improved understanding of the flow properties of powders is described in the report of the Laboratory for 1964 published on June 24 (H.M. Stationery Office, price 5s.). It has been found possible to designate a powder by its shear index and cohesion, for any bulk density. For a hypothetically free-flowing powder an equation for shear stress of the powder, derived from experimental measurements on a number of cohesive powders, has been found to reduce to a form analogous to the friction formula for two solid surfaces in contact, Investigations into the blending of dry materials are being undertaken at the laboratory and where possible co-operative research is being carried out with industry in order to include industrial scales of blending and industrial blends in the results obtained, Attempts are also being made to develop a mathematical/statistical definition of degree of mixedness. Research into the fluid mechanics of sus-

pensions has been concentrated on the study of aqueous bentonite suspensions. Suspensions containing up to 9 per cent. solids by weight have so far been studied and have been found to show thixotropic behaviour and to possess yield stresses. Flow characteristics of the suspensions through pipelines and pipe-fittings are also being studied

## The "Greater Enemy" DRUGS AND DOCTORS OR DISEASE?

"I SOMETIMES think, listening to some of the critics, that they consider drugs and doctors to be more potent enemies of the public's health than the diseases they cure," said Mr. P. V. Colebrook (chairman and managing director, Pfizer, Ltd.), at a dinner given by Edinburgh University for celebrating the opening of the Pfizer Foundation on July 2. Mr. Colebrook thought that health workers had tended to dismiss much of the criticism in the past because it had been so ill-informed,

nevertheless he thought it was incumbent upon all, doctors, industrialists and pharmacists alike to recognise their mutual interests and energetically to correct such misleading impressions when they came their way. No members of "The Health Team," as it was sometimes called, could work in isolation: we are all members one of another.

#### Civil Estimates

MORE REQUIRED FOR DOCTORS' FEES

SUPPLEMENTARY Estimates (H.M. Stationery Office, price 4s. 6d.), reveal that an extra £5,218,000 is required for the National Health Service to meet "payments under arrangements with medical practitioners" in England and Wales. £590,000 more is also required for general practitioner services in Scotland. The increased provisions are in connection with the increased capitation and temporary residents' fees.

#### Guernsey Parliament

DANGEROUS DRUG LAW TO BE REVISED

GUERNSEY'S parliament—the States of Deliberation—agreed without debate on June 30 that existing local legislation on dangerous drugs should be repealed and replaced by legislation along the lines of the United Kingdom Dangerous Drugs Acts of 1951 and 1964. Her Majesty's Procureur (Mr. J. H. Loveridge)—the island's principal



ROYAL OPENING: The Duke of Edinburgh declaring open the Pfizer Foundation, a £100,000 centre for Edinburgh's post-graduate medical students, at a ceremony on July 2. Funds totalling £250,000 are being made available over a 25-year period by Pfizer, Ltd., to finance the cost of the centre for international symposia conferences and seminars on medicine. On the Duke's left is Professor Michael Swann (acting principal, Edinburgh University) and Dr. James Robertson Justice (rector, Edinburgh University).

law officer—described the step as a "very necessary measure." Present Guernsey legislation on the subject is contained in two laws of 1931 and 1932 both in French. They were based on legislation in force in the United Kingdom at that time. They had been amended and extended by a considerable amount of subordinate legislation. As Guernsey adopted English as its official language after the 1939-45 war, part of its law is in French and part in English. In his report to the States, Conseiller E. D. Collas (president of the Board of Administration), pointed out that the new legislation was necessary to bring into effect in the Bailiwick of Guernsey (which also covers Alderney and Sark) the provisions of the 1961 Single Convention on Narcotic Drugs and that the Board of Administration considered that the opportunity should be taken to bring the whole of the local dangerous drugs legislation into line with the United Kingdom legislation. It now remains for the new law to be drafted.

## IRISH NEWS THE REPUBLIC

### Tried to Pass Blame

DEFENDING solicitor for Patrick Curley, general trader, argued at Eyre, co. Galway, court recently, that articles alleged to have been sold by his client had been supplied by a member of the

#### HOSPITAL POINTS SCHEME

#### New basis for assessment

A NEW system of calculating points for determining the categories of hospitals has been agreed by Committee C of the Pharmaceutical Whitley Councii (P.H. Circular No. 34). Calculations are to be based on staffed beds and not on average occupied beds as previously. All out-patient attendances will be taken into consideration in the calculations and extra points are now given in respect of responsibilities for more than one hospital. The Minister of Health has agreed that a general re-assessment of points should be made under the scheme, the effective date of re-assessment to be December 1, 1964, and the period of assessment the year January 1 to December 31, 1964. Points values of the categories are now as follows:

CATEGORY	POINTS
I	1- 5
П	6-10
111	11-25
IV	26-40
V	40 and ove

Points are to be calculated according to the following formulae:—

Type of hospital (or beds)1		OUT-PATIENT S ATTENDANCES ce one point)
	(to produ	ce one point)
Chronic and		)
geriatric	125	
Orthopædie	45	> 20,000
Subnormal and severe	ely	
subnormal	200	1
Mentally iil	120	1
T.B.	75	10.000
Isolation	90	(part 2) <sup>2</sup>
Part III	360	20.000
Other (including		(part 3) <sup>2</sup>
non-T.B. chest)	30	

<sup>1</sup> Hospitals are treated as being of a particular type when 60 per cent, or more staffed beds are of that type, otherwise points are calculated separately for each type of bed.

<sup>2</sup> Parts 2 and 3 refer to those parts of the S.H.3 returns for England and Wales. In Scotland, for "(part 2)" is to be read Part 1 of form H.S.10 with the exception of items 29, 33, 34 and 35; the latter items are to be read for "(part 3)."

In mixed hospitals points from part 2 out-patients are to be calculated separately for the different types shown in the table, according to the formula; the part 3 out-patients' total is to be divided by 20,000. Where a chief pharmacist is responsible for more than one hospital two points are given for each additional hospital of thirty

staffed beds and over, and one point for each extra hospital with fewer than thirty staffed beds, after aggregating the points for each hospital calculated as in the table.

P.H. Circular No. 35 gives details of the new agreement on salary scales reached by the Committee on May 3 (see C. & D., May 8, p. 461). Annual allowances for group pharmacists are now as follows:—

TOTAL NUMBER OF POINTS	ALLOWANCE
Up to 30	£65
31 to 55	£130
56 to 80	£195
81 and over	£260

Allowances in respect of special duties at nominated teaching hospitals have been increased (1) chief pharmacists from £175 to £200; from £260 to £295 and from £350 to £395; (ii) deputy chief pharmacists now receive £60 where the chief pharmacist's allowance is £200; £90 if the chief pharmacist's allowance is £295 and £120 if the chief pharmacist's allowance is £395. Adjustments have been made in the salary levels at which the leave allowances come into force.

Part-time pharmacists working six sessions (i.e., twenty-four hours) or less per week are to receive fifty-one shillings and twopence per session of four hours or sixty-three shillings and three-pence when in sole charge at a hospital that is not included in the points calculation for determining the salary of a chief pharmacist elsewhere.

Weekly rates for locum tenens pharmacists in hospitals are now:
Locum tenens ... £23 12s. 6d.
Locum tenens in charge,

I £26 5s. 0d. II £28 7s. 0d. III £31 10s. 0d.

pharmaceutical profession and that that was the person who should have been prosecuted. Curley had been summoned by the Pharmaceutical Society of Ireland under Section 30 of the Pharmacy Act for keeping open shop for retailing poison, not being qualified to do so, and for selling sulphadimidine in scour tablets without complying with Section 2 of the Poisons' Act, 1870. Mr. J. Gaynor, solicitor for the Society, pointed out that no evidence whatsoever had been submitted that the articles had been supplied by a pharmaceutical chemist. He urged that the defendant was merely trying to pass the blame for the offence on to the supplier of the articles despite the fact that he had been quite prepared to take supply of the goods from whatever source offered. The justice applied the Probation Act and ordered Curley to pay £10 12s. costs and expenses.

#### IRISH BREVITIES

#### THE NORTH

PRESCRIPTIONS dispensed in Northern Ireland during March numbered 813,230 (550,864 forms). Total cost was £466,797 (£466,721 net) making an average of 137.76d, per prescription (137.74d, net).

#### THE REPUBLIC

THE Minister for Health (Mr. O'Malley) said in the Dail on June 30 that he would consider sympathetically before next year, a Fine Gael suggestion that certain medical expenses should rank as an allowance for income tax purposes.

A DEPUTATION from the Pharmaceutical Society of Ireland was received by the Minister for Health (Mr. O'Malley) and officials of his Department on June 18. A joint deputation from the Society and the Irish Drug Association has subsequently held discussions with officials of the Department and it is understood that further talks will take place in the near future.

THE annual meeting of the Irish Drug Association, which was to have been held on June 28, has been postponed until July 12 (8.30 p.m., Jury's Hotel, Dublin). Eight candidates are standing for election to the council of the Association. They are:—the three outgoing candidates (Messrs. P. J. Kilgarriff, Tuam, co. Galway; P. McAuliffe, Dublin; G. C. O'Neill, Blackrock, co. Dublin) and Messrs. J. P. Burke, Dublin; E. D. Leavy, Dundalk, co. Louth; R. C. O'Higgins, Dublin; D. O'Sullivan, Dublin, and A. Thornton, Enniscorthy, co. Wexford.



NORTH MEETS
SOUTH: Representatives of the Irish Drug
Association and the
Ulster Chemists' Association photographed
together at a joint
meeting held in Belfast,
recentiv.

#### NEWS IN BRIEF

July 10, 1965

THE National Research Development Corporation, 66 Victoria Street, London, S.W.1, has published a bulletin entitled "26 Inventions for Industry," listing the inventions the Corporation has available for development under licence and including a number of scientific instruments.

A NEW rheumatology research department for the Middlesex Hospital Medical School, established with a grant of £50,000 from the Arthritis and Rheumatism Council and £34,740 from the Nuffield Foundation, was opened on July 8 by Lord Cobbold (chairman of the hospital's Board of Governors).

A BROCHURE has been produced by the British National Export Council, 27 Northumberland Avenue, London. W.C.2, giving the constitution and membership of the council and its area bodies. In all, some 165 businessmen are now helping the council in a voluntary capacity.

At the annual meeting of the Proprietary Association of Great Britain on June 17, the officers were re-elected to their former positions:—Mr. S. W. Day, Chairman; Messrs. J. W. Jamison and C. D. W. Stafford, Vice-chairmen; and Mr. T. D. C. Cordner, treasurer. The twelve members of the executive committee were also re-elected.

A GRANT of £60,000 from the Wellcome Trust will enable the department of medicine of the University of Newcastle upon Tyne to build a new laboratory at the Royal Victoria Infirmary, Newcastle, to further research into a number of medical problems, including thyroid disease, diabetes and peptic ulceration. The remaining funds required for the building have been provided by the University of Newcastle (£10,000) and the research fund of the Royal Victoria Infirmary (£10,000).

THE Lothians and Peebles Executive Council, meeting in Edinburgh, on June 22, agreed to adopt the proposed drug testing scheme recently circulated by the Scottish Home and Health Department (C. & D., June 19, p. 625). The council agreed that an inspector should undertake a minimum of twenty visits to pharmacies each year, which would enable all the pharmacies in the area to be inspected every third year, and that the scheme should come into operation on July 1 "or as soon thereafter as the Secretary of State for Scotland gives his assent."

#### SPORT

Gotf

SOUTH LONDON AND SURREY PHARMACISTS' GOLFING SOCIETY. Thirty-four members attended the meeting held at Tandridge golf club on June 30. A Stableford competition was played for the Banstead bowl and Seniors' prize and a medal competition for the Phil Thorp puter. Results: Banstead bowl, A. F. Reary, Croham Hurst, 37 points, Phil Thorp puter, N. A. Smith, Cuddington, 69 net. Seniors' prize, G. G. Jamicson, Croham Hurst, 36 points. Scratch to fourteen handicap prize, R. E. Hedges, Langley Park, 36 points. Fifteen and over handicap prize, H. V. Powell, Woodcote Park, 34 points. Best score on first nine holes, A. Wilson, Croham Hurst. Best score on last nine holes, F. R. Jamieson, Woodcote Park.

### TOPICAL REFLECTIONS

By Xrayser

Planning for the future

At the annual meeting of pharmacists resident in Scotland held in Edinburgh in 1964, Dr. G. H. Macmorran presented his audience with an analysis of the distribution of pharmacies in that country. This year's annual meeting, the audience heard Dr. J. C. Parkinson address himself to the task of attempting a solution of the problems which Dr. Macmorran's researches had brought to light (C. & D., July 3, pp. 13-14). During his address, the deputy secretary of the Pharmaceutical Society put forward what might be regarded as the ideal single unit in pharmacy, based on population, volume of dispensing, and turnover, having regard at the same time to geographical circumstances. Such conditions may arise of themselves, but generally they would necessitate careful planning, supported by statutory powers of enforcement. Dr. Parkinson suggested measures under four headings which he felt would encourage a more equitable distribution of pharmacies. One was to encourage amalgamation into groups in urban areas, telescoping six or seven existing businesses into four. That would call for measures to ensure that there was protection against incomers. The second point was that there should be a prohibition of the opening of new pharmacies in regions already more than adequately supplied. That, also, would call for measures of control. But in areas where there was a high population ratio to the number of existing pharmacies, Dr. Parkinson suggested that the law of supply and demand could be expected to work. It is difficult to visualise control operating in some areas, leaving others with complete freedom. That seems to be a weakness in the suggested scheme. In areas other than those in the three categories mentioned, the speaker said the criteria of distance and population could be applied.

#### Limitation

To deal with the situation on the basis of population and distance, Dr. Parkinson said that it was possible that the Society might take powers to "inhibit the registration of premises unless they were capable of giving a full service to a population of 4,000—i.e. the 'gamblers' would be cut out." I presume that the speaker meant that the Society might seek powers, for, as he said in answer to a question, legislation would be necessary to enable the Society to prohibit the opening of new pharmacies and, at present, the Registrar had no authority to refuse the registration of premises as such. But I hope the matter will not be allowed to rest where it is. The points raised by Dr. Parkinson must be carefully considered and, if acceptable as a means of bringing order out of a completely unplanned situation, legislation should be sought to secure their implementation. In seeking legislation it will, of course, be necessary to prove that the steps proposed are in the public interest. The Government would be bound to listen to proposals which sought to provide a complete pharmaceutical service and, at the same time, make the best use of pharmaceutical manpower in the creation of which large sums of public money have been invested.

#### Manpower

I took the liberty, following an earlier address by Dr. Parkinson, of doubting some of his conclusions as to the possible strength of the pharmaceutical register in 1982, for so many factors are involved. The estimate of the report on pharmaceutical manpower had forecast a decline in numbers over the next twenty years, but with the steady increase in intake to schools since the report was published, Dr. Parkinson felt that there would be more pharmacists in 1982 than today. He himself mentioned a possible factor when he stated that the broad scientific background of the present-day pharmacist could be applied in many walks of life outside pharmacy. "Is it realistic," he asked, "to expect them to remain on the register?" There may be, that seems to suggest, a difference between intake to schools and the ultimate strength of the register.

## Increasing Use of Cosmetics

#### NEW SURVEY SHOWS GROWTH RATE SINCE 1955

THE average woman is using an increasingly wide range of cosmetics. The use of hair and hand preparations and face make-up, including hair colourants, nail varnish and eye shadow has increased appreciably over the past two years. Those findings emerge from the latest of a series of surveys on cosmetics carried out for Woman magazine by Odhams Press research division, for which 4,145 women aged from fifteen to sixty-four were interviewed between July 27 and September 12, 1964. The report "Woman and the National Market — Cosmetics" (Odhams Press, £5 5s.) was published on July 8.

The following table showing the percentage of women using various cosmetics indicates how their use has grown since 1955 and, specifically, over the past two years:

	1964	1962	1955
Liquid or lotion shampoo	74	70	50
Cream shampoo	25	20	9
Hair colourants	23	16	7
Hair conditioner	9	7	8
Nail varnish	36	31	25
Nail varnish remover	32	28	20
Barrier cream	10	7	7
Liquid make-up base	23	19	8
Eye shadow	31	26	5
Mascara	31	27	12
Cleansing cream	49	44	38
Cleansing lotion	13	11	6
Skin food	36	33	25

The use of deodorants and antiperspirants, not included in the 1955 survey, has also increased appreciably during the years 1962-64. The percentage using them went up to 58 (from 48). Products which have consolidated gains made since 1955 and whose latest use has remained constant at the 1962 figure are lipstick 85 per cent. (76 per cent. in 1955), eyebrow pencil, 24 per cent. (8 per cent. in 1955), and bleaching lotion, 4 per cent. (2 per cent, in 1955). Exceptions to the overall growth trend are: Powder shampoo, setting lotion, foundation and vanishing cream and rouge. There have been only small fluctuations over the whole period in the use of hand cream and lotion, now used by 79 per cent. and of all face powder now used by 80 per cent.

#### Most Widely Used

On its first inclusion in the survey, talcum powder—used by ninety-two in every 100 women — emerges as the most widely used cosmetic article. Three in ten of the talcum powder users had been given the powder they were using as a present, and nearly half of the bottles of fragrances (toilet water, cologne or perfume) in use were also gifts. Nearly three in four of all women use fragrances.

In establishing where women bought their cosmetics, the survey took the type of shop at which they made their last purchase. On that basis, pharmacies emerged as the major retail outlet for every kind of preparation. Among those most extensively used, the following percentages of purchases were shown to be made at chemists: Skin food, 73 per cent.; cleansing cream, foundation and vanishing cream, compressed face powder, 72 per cent.; deodorants and anti-perspirants, 70 per cent.; nail varnish remover, 66 per cent.; lipstick and nail varnish, 65 per cent.; aerosol hair spray, 61 per cent.; hand cream and lotion, 60 per cent.; mascara, 59 per cent.: eye shadow, 56 per cent.

#### Liquid Shampoos

Three out of four women use liquid or lotion shampoos; 22 per cent. of the purchases are made at grocers or supermarkets, compared with 18 per cent. in 1962. The grocery trade also handles 15 per cent. of cream shampoo purchases, being the second highest retail outlet for these types of wet shampoo. Grocers are also having a bigger share in the expanding market for the newer kinds of hair spray. Compared with 4 per cent. of the combined purchases for aerosol and squeeze pack sprays in 1962, those for the squeeze pack have risen to 13 per cent. and for the aerosol type to 7 per cent. Women are going to bazaars (e.g., Woolworths) for one-fifth of the eye preparations they buy. Among other products bought at bazaars are 24 per cent. of rouge, 19 per cent. of nail varnish remover, 17 per cent. of setting lotion.

Women are putting still more emphasis on making up their eyes, The upward trend in use for eye shadow, mascara, and eye liner continues, but eyebrow pencil usage has remained

stationary at the 1962 figure of 24 per cent.

Twenty-three per cent, of women use liquid make-up base against 8 per cent. in 1955 and 13 per cent, favour all-in-one make-up compared with 6 per cent. in 1962. Lipstick is used by 97 per cent, of women between twenty-five and thirty-four years of age, by 77 per cent, of girls fifteen to eighteen years old.

The report says that more attention is given to keeping hands supple and the fingernails strong as well as colourful.

More than one in three women use nail varnish and 32 per cent, varnish remover. One woman in ten now uses barrier cream (7 per cent, in 1962).

barrier cream (7 per cent, in 1962).

Liquid or lotion shampoos continue to grow in popularity, their use going up to 74 per cent, in 1964 from 50 per cent. in 1955. One woman in four now uses cream shampoo, nearly three times the 1955 percentage. Of all users of wet shampoos, a third choose the medicated kind. Only 3 per cent, use a powder shampoo against 31 per cent, in 1955. The popularity of aerosol type hair sprays now equals that once enjoyed by setting lotion. They are applied by three women in ten, while nearly two in ten go for squeeze pack hair sprays.

Home perms continue their downward trend since 1955, usage declining from 29 per cent, of women to the latest figure of 19 per cent., which is the lowest over the whole nine-year period. However, the average number of home perms per user, now 1-71, shows little change.

#### REPORT ON SICK-LEAVE STATISTICS

#### More spells from work but of shorter duration

ALTHOUGH there have been dramatic reductions in some diseases, people are taking sick-leave more frequently than before but the spells are of shorter duration. That is a finding of the report "Work Lost Through Sickness" published by the Office of Health Economics, 62 Brompton Road, London, S.W.3 (price 2s.).

Introducing the report, the office's director (Mr. G. Teeling-Smith), said that the finding might at first be unexpected but on reflection it was not so surprising. First, studies into sickness absence in certain industries had shown that the number of days lost tended to be related to what could be called "employment status." In London Transport, for example, salaried staff had more short sickness absences than wage earning employees. That was probably because the former were paid during sickness, while the wage earners were entitled only to their sickness benefit and then only if they were off more than three days. In addition, there was probably a specific "middle class" effect related to the higher allround standards which people expected as they became affluent. The hospital beds previously needed for patients with tuberculosis had not fallen because

"new types of patient with new types of illness" had been admitted.

That could seem discouraging, because "it could mean that over the broad field of illness we were simply running faster and faster in order to stay still." That gloomy interpretation of the figures was rejected at the Office of Health Economics, said Mr. Teeling-Smith.

The report quotes the reduction in the death rate for men aged twenty-five—thirty-four from about one in 600 in 1949 to about one in 1,000 in 1962, but points out that not all those who benefit from the reduced mortality will be well enough to work and some would need continuing medical care. The alternative was their premature death.

A second factor contributing to the persistence of sickness absence is a more obvious manifestation of the rising standards of health. The report says people who previously ignored or did not appreciate the nature of their ill-health now expect treatment for it. Many who would previously have "struggled along at work, for example, with a raging cold, or agonising rheumatic pains, now stay away from work while they are being treated."

That links in with the third factor. The majority of employees now continue to get their full pay made up by their employees during short spells of sickness absence. The report believes that it is primarily the combination of those circumstances which has resulted in a 27 per cent. increase in the number of spells of sickness absence over the past decade.

As the number of absences from work due to illness has risen, however, their duration has fallen. The total number of days lost has remained more or less constant at about 300 million per year; that is about fourteen working days lost for each person covered by the insurance scheme. The cost of sickness benefit payments is about £160 millions a year. (The National

Health Service costs about six times as much.) The report points out that a small proportion of chronic sick and the elderly are responsible for a large proportion of the total absences and total cost. Skin diseases, rheumatism and ulcers now cause less absence than before; but sprains, "slipped discs," nervous diseases, diabetes and heart disease are responsible for more.

## National Health Service in 1964

#### MORE PRESCRIPTIONS AND HIGHER COSTS IN ENGLAND—WALES

THE total number of prescriptions dispensed in England and Wales during 1964 was 209.375 millions, an increase of 3.9 millions over the previous year, states the annual report of the Ministry of Health, for the year ended December 31, 1964 (Cmnd. 2688) (H.M. Stationery Office, 16s. 6d.). The ingredient cost also rose from 75d. in 1963 to 83d. in 1964. About 71 per cent. of all prescriptions were for proprietary drugs, an increase of 3 per cent. over the previous year. There was a greater volume of prescribing in the therapeutic groups containing the newer, and usually the more expensive drugs. The total ingredient cost rose from £65 millions in 1963 to £72 millions in 1964. The percentage of the total net ingredient cost accounted for in 1964 by proprietary and non-proprietary drugs were 90 per cent. and 6 per cent. respectively.

Prescriptions dispensed in Wales in 1964 totalled 14,186,067 compared with 13,583,171 in 1963. The cost per prescription was 10s. 6½d. compared with 9s. 10d. in 1963. Prescriptions in Wales followed the general pattern, reaching a peak of 1,332,476 in January and maintaining a fairly high level through

to April.

In a chapter dealing with the remuneration of chemists, reference is made to the agreement that chemists should be paid a professional fee for each prescription dispensed and an oncost allowance. "It was also agreed that 0.1 penny per prescription (about £85,000 in total) should be set aside to

CHEMIST CONTRACTORS
SIZE GROUP DISTRIBUTION IN 1963

ANNUAL NUMBER OF N.H.S. PRESCRIPTIONS	NUMBER OF ESTABLISHMENTS
Less than 3,000	279
3,000- 5,999	975
6,000- 8,999	1,803
9,000- 11,999	2,077
12,000- 14,999	1,879
15,000- 17,999	1,518
18,000- 20,999	1,076
21,000- 23,999	778
24,000- 29,999	1,021
30,000- 35,999	521
36,000- 41,999	249
42,000- 47,999	138
48,000- 53,999	79
54,000- 59,999	25
60,000- 71,999	40
72,000- 83,999	17
84,000- 95,999	13
96,000- 107,999	13
108,000- 119,999	5
120,000 and over	10
Total	12,516

Note:—Includes only those chemists' establishments which issued prescriptions and were open the whole year. Establishments which changed ownership during the year are included.

provide additional payments to small chemists providing an essential service in rural areas. The methods of distributing this sum," states the report, "were under discussion at the end of the year." The report also mentions the revision of the voluntary price legislation scheme that came into operation on July 1, 1964.

#### Committee on Safety of Drugs

The Committee on Safety of Drugs (chairman, Sir Derek Dunlop) started its consideration of new drugs on July 1, 1964. "Out of 600 submissions by manufacturers of proposals to market new drugs, or submit them to clinical trial, the Committee indicated in 386 cases that it had no objection to the proposals and in 15 cases that it could not agree. At the end of the year, further information was awaited on 99 submissions which had been referred back to the applicants. 68 were under consideration and 32 had been withdrawn."

A short note under the heading "Review of Medicines Legislation" refers to the fact that during August 1964, "the principal interests concerned were invited to comment on proposals which had been worked out and their replies were being studied at the end of the year."

The net capital expediture on the hospital service during 1963/1964 amounted to £56,320, 384 (£35,681,622 in 1962/

1963); Revenue expenditure totalled £520,389,204 (£485,961,700 in 1962/1963); in which the main items were salaries and wages—medical and dental, £530,282; nursing, £137,620,023 and "others" £154,264,613. The expenditure on drugs amounted to £14,589,433 (£13,214,430) and on dressings, £3,741,995 (£3,678,863).

The estimated expenditure on the Health and Welfare services in England and Wales for the 1964-1965 financial year is given as £1,128 millions, compared with £1,026 millions in 1963-1964 and £946.9 millions in 1962-1963. An analysis of the cost of the service in £millions in 1963-1964 given in the report as follows (the 1964-1965 estimates in parentheses):— Central Administration 5.069 (5.912); hospitals current expenditure 521.9 (567.5); hospitals capital expenditure 54.589 (64.96); Executive Council services administration 6.055 (6.465); general medical services 81·193 (92·138); pharmaceutical services 97.995 (116.66); general dental services 58.085 (60.86); supplementary ophthalmic services 16.84 (17.588); welfare foods service 30.29 (35.30); other central Government services 12.486 (13.8); payment by patients 38.873 (39.815); local health authority services 93.29 (103.2); local welfare services 48.3 (52.8). Total 1,026 (1,127). A prescription analysis by therapeutic class is on p. 30.

#### PHARMACEUTICAL SERVICES EXPENDITURE 1963-64

(a)	Total gross payments to contractors  Less net repayments of special interim payments  Less charges to patients	£ 94,107,183 4,899 21,098,840	£
	Estimated breakdown of (a):—  (i) Dispensing fees and payments for services outside hours	15,318,000 66,908,000 11,881,000 94,107,000	73,003,444
(b)	Medical practitioners:— (i) Payments (ii) Superannuation, etc.—Executive Council's Share	3,717,756 174,756	
	Less charges to patients	3,892,512	
	Less charges deducted under N.H.S. (Service Committees and Tribunal) Regulations, 1956	3,891,006 2,803	3,888,203
(c)	Other payments		154
	Totals (a) (b) and (c)		76,891,801

Prescription charges collected by doctors amounting to £641,151 and paid in cash and £417 received from the G.P.O. in respect of charges paid over by means of postage stamps are not included.

PRESCRIPTION ANALYSIS BY THERAPEUTIC CLASS.	NUMBER OF PRESCRIPTIONS			TOTAL NET INGREDIENT COST			AVERAGE NET INGREDIENT COST PER PRESCRIPTION	
1962–1964	1962	1963	1964	1962	1963	1964	1963	1964
THERAPEUTIC GROUP		millions			£ million		pen	ce
Total	196-6	205.5	209.4	59.0	64-1	72.0	75	83
(a) Antacids	6.5	7.0	6.9	1.0	1.1	1.2	38	42
(b) Gastro-intestinal sedatives (c) Other preparations affecting digestive	2.2	2.6	2.5	0.2	0.3	0.3	26	30
processes	1.9	2.0	2.2	0.9	0.9	1.1	109	121
(d) Tonics (e) Laxatives and purgatives	2·7 3·9	2·7 3·8	2·4 3·6	0·3 0·5	0·3 0·5	0·3 0·5	25 33	27 34
(e) Laxatives and purgatives (f) Preparations acting locally on the rectum Preparations acting on the cardiovascular system	0.9	1.0	1.1	0.3	0.3	0.4	84	95
(a) Anti-hypertensives (b) Other preparations: cardiac drugs, vasodilators, vasconstrictors, anti-	2.5	2.7	3.0	2.1	2.8	3.7	246	293
vasodilators, vasconstrictors, anti- coagulants and sclerosing agents Preparations acting on the nervous system	7.5	7.8	7.9	1.9	- 2.0	2.2	61	68
(a) Addictive analgesics	0.9	0.9	0.9	0.1	0.2	0.2	40	44
(b) Antipyretic analgesics	14-1	14.8	14.9	2.2	2.3	2.6	38	42
(c) Specific analgesics (d) Barbiturates (unadmixed and if principal	3.4	3.8	4.3	1.7	1.9	2.3	122	127
active ingredient)	15.8	15·9 2·5	16.1	1·7 0·3	1·8 0·3	1·9 0·3	27 28	28 31
(e) Non-barbiturate hypnotics (f) Tranquillisers	2·6 6·6	7.1	9.0	2.7	3.0	3.9	102	105
(g) Anti-emetic preparations (h) Anti-convulsants and other preparations for	1.0	0.9	1.0	0.4	0.4	0.4	98	104
treating motion sickness and Parkinsonism	1.9	1.8	1.9	0.8	0.8	0.9	106	113
(i) Stimulants and appetite suppressants	5.4	4.9	5.1	1.3	1.3	1.4	61	67
(j) Anti-depressives	2.0	2.4	2.8	1.9	2.2	2.4	218	205
(k) Local anaesthetics, analgesics, counter irritants and miscellaneous  Preparations acting on the genito-urinary system	4.0	4.0	3.6	0.6	0.6	0.6	38	39
(a) Sex hormones	2.2	2.3	2.6	0.7	0.8	1.0	83	90
(b) Diuretics	3.2	3.6	4.0	1.8	1.9	2.3	130	138
(c) All other preparations Preparations acting systemically on infections	2·1	2.2	2.1	0.4	0.4	0.5	48	54
(a) Penicillins	9.2	10.2	10.6	4.6	5·0 8·8	5·6 9·1	117 246	128 231
(b) Tetracyclines (c) Other antibiotics	6·9 1·9	8.6	9·4 2·5	8.0	1.6	1.8	166	170
(d) Sulphonamides	4.5	4.2	3.6	1.0	0.9	0.8	49	54
(e) Vaccines and sera	0.4	0.5	0.5	0.1	0.1	0.1	69	71
(f) Other anti-infective agents Preparations affecting metabolism and nutrition	1.5	1.6	1.7	1.6	1.7	2.0	263	278
(a) Insulin and other hypoglycaemics (b) Erythropoietic preparations including	1.1	1.1	1.2	1.4	1.5	1.6	327	337 52
parenteral vitamin B <sub>12</sub> (c) Vitamin preparations including multivitamin	5.3	5.5	6.2	1.0	1.1	1.3		
preparations with mineral salts	5 · 1	5.3	5.2	1.0	1.0	1.1	47	51
(d) Corticosteroids for systemic treatment	1.7	1.7	1.8	1.6	1.5	1.6	209	225
(e) Thryoid, anti-thyroid and other preparations affecting metabolism and nutrition	1.5	1.6	1.7	0.4	0.5	0.6	80	92
Preparation acting on the respiratory system  (a) Preparations acting locally on the upper								
respiratory tract	6.5	6.3	5.7	0.6	0.6	0.6	23	24
(b) Expectorants and cough suppressants	17.8	18.6	16.2	1.9	2.1	2.0	27	30
(c) Bronchodilators, relaxants and other prepara-	1.0		( )	1.5	1.9	2.5	85	95
tions affecting the respiratory system Preparations affecting allergic reactions	4·9 4·7	5·5 5·0	6·2 5·6	1.0	1.1	1.3	51	55
Preparations affecting allergic reactions Preparations acting on the ear	1.4	1.5	1.5	0.3	0.3	0.3	43	48
Preparations acting on the eye (including anaesthetics and vasoconstrictors)	3.2	3.2	3.3	0.5	0.5	0.6	40	44
Topical preparations acting on the skin (a) Fungicides, parasiticides and other specific						0.4	40	61
anti-infective agents (b) Corticosteroids	2·0 5·6	1·9 6·5	2·0 7·6	0·4 2·6	0·4 3·2	0·4 3·8	49 120	121
(c) Other preparations: sedatives, antiprurities, keratolytics and antiseptics including	3.6	0.3	/-0	2.0	, ,		120	1
surgical antiseptics Other drugs and preparations (including individually	6.2	5.8	5.6	0.9	0.9	1.0	38	42
formulated preparations not classified elsewhere)	5.7	5.7	4.8	0.5	0.5	0.5	22	25
(a) Dressings, appliances	5.8	5.6	5.3	1.6	1.7	1.7	71 325	76 332
(b) Trusses and hosiery	0.7	0.8	0.8	1.0	1.1	1.1	323	332

#### IN PARLIAMENT

BY A MEMBER OF THE PRESS GALLERY, HOUSE OF COMMONS

In the House of Lords on June 29, LORD CROOK referred to the current deficiency of staff in London hospitals. He also pointed out there was a large staff turn-over and he asked the appropriate authorities to examine the present rates for "London weighting with a view to bringing salaries into line with progressive public and industrial undertakings. He did not think that the Civil Service received enough by way of allowances but he emphasised that members of that service received "a great deal more than they would get in the National Health Service." He compared London allowances of £70 on salary scales between £801 and £1,000, whilst other organisations were paying £125 and £150 on the same salary scale. In one year one of the London teaching hospitals with forty-eight members of staff in a nominal salary range, lost fourteen members, who left either for better pay in the centre of London, or in order to take up offers of employment nearer home. He did not wish to "rock the boat" about wage rates in general but he did want the Government to ask the appropriate authorities to examine the present London "weighting scale." LORD AMULREE could not understand why the weighting in the National Health Service of those under 21 should be less than the weighting of those over that age. LORD TAYLOR reminded members of the House that London weighting was a Whitley Council matter.

#### **Drug Industry Inquiry**

MR. WILLIAM HAMLING asked the Minister of Health what representations were made to him by the trade union movement on the setting up of the Committee to inquire into the relationship between the drug industry and cost of the National Health Service. MR. KENNETH ROBINSON (Minister of Health), in a written answer on July 2, said that representations were made by the Trades Union Congress supported by the Northern Ireland Committee of the Irish Congress of Trade Unions. MR. HAMLING then asked the Minister of Health what representations he had received from the Trades Union Congress on the appointments of members to the committee of inquiry and MR. ROBINSON replied that the General Council put forward two names for consideration. Mr. HAMLING asked the Minister if he was aware that one of the persons appointed to serve on the committee of inquiry was primarily an employer in the jute industry, and he wanted to know why the Minister had not appointed a person recommended by those representing employees. Mr. KENNETH ROBINSON'S reply was that members of the committee were appointed for the contribution they could make to the work of the Committee and not as representatives of particular interests.

#### **Drugs in Hospital Service**

In a written answer to MR. L. A.

PAVITT on July 5, MR. KENNETH ROBINSON provided the following information about the estimated usage in 1964 of the ten most widely prescribed drugs purchased under contracts placed centrally or by hospital authorities:-Halothane £650,000; chlorpromazine £270,000; ampicillin £240,000; cloxacillin £200,000; tetracycline £130,000; methicillin £120,000; phenethicillin £110,000; sodium diatrizoate £110,000; fusidic acid £80,000; and hydrocortisone sodium succinate inj. £80,000. Mr. Robinson added that because of variations in the scope of hospital contracts for drugs it might be misleading to extend the list further. MR. PAVITT also asked the Minister of Health what drugs he proposed to purchase from abroad "for the service of the Crown and MR. ROBINSON told him that tenders had been invited for the supply of chlorothiazide and hydrochlorothiazide but those drugs would not be purchased from abroad if the patentees or licensees in the United Kingdom submitted acceptable tenders.

#### Prescriptions

MR, A. L. BUCHANAN-SMITH asked the Minister of Health what was the total number of prescriptions prior to the abolition of prescription charges compared with the three months following and what was the total cost of drugs and dispensing fees within the same period. MR. KENNETH ROBINSON in a written reply on July 5 provided the following information concerning prescriptions dispensed by chemists in England and Wales:—

#### Prescriptions November 1964 9,148,489 17.656.154 December 1964 17,634,277 9,239,457 January 1965 18.579.479 9,599,936 Total for three months prior to February 1, 1965 53,869,910 27,987,882 February 1965 20.775,870 10.344,473 March 1965 23,735,830 11,778,871 April 1965 20,213,539 10,296,893 Total for three months following February 1, 1965 64,725,239 32,420,237

#### **Hospital Pharmacists**

When Mr. HUGH FRASER asked the Minister of Health if he was satisfied with the recruiting arrangements for hospital pharmacists and with the speed of operating the present negotiating machinery on pay and conditions, MR. CHARLES LOUGHLIN (Parliamentary Secretary, Ministry of Health) replied on July 5 that the recruiting arrangements were primarily the responsibility of the hospital authorities and were generally satisfactory. The Minister had improvements constantly in mind. He had no plans for changing the negotiating machinery but was keeping under general review the working of the Whitley Councils. MR. HUGH FRASER also asked the Minister of Health whether he would seek to set up a central pool of pharmacists in each hospital management region, with members of the pool receiving an expense allowance and being on call for any hospital in the area. MR. LOUGHLIN in a written reply on July 5 said the recently agreed substantial increases in the pay of hospital pharmacists would, he hoped, improve recruitment. The Minister did not think that a scheme such as Mr. Fraser had proposed was needed.

#### LEGAL REPORTS

#### **Poisons Act Infringement**

THE purchase of a bottle of Famel syrup and a bottle of Antussin had a sequel at Old Street magistrates' court on July 5 when the owners of the shop concerned, Whitecross Drug Stores, Ltd., 195 Whitecross Street, London. E.C.1, were fined a total of £40, £10 on each of four summonses, for infringing the Pharmacy & Poisons Act, 1933. The company were also ordered to pay £10 costs. All the offences were admitted. MR. A. C. CASTLE, prosecuting, said there were two pairs of summonses. They related to the alkaloid codeine in Famel syrup and to ephedrine hydrochloride in Antussin; and the sale of the preparations in containers not labelled with the name of the sellers and the address of the premises on which they were sold. The selling of the two Part I poisons was illegal, Mr. Castle pointed out, because the defendant company were not authorised sellers of poisons as laid down by the Act. The purchases were made by a lady agent of the Pharmaceutical Society and she purchased a bottle of Antussin and a bottle of Famel syrup. She asked to see the proprietor and a Mr. Liberman, a director, came from a stall outside the shop. She told him who she was and asked for his comments, saying she thought the offences had been committed in relation to the sale of the two preparations. "He was rather abusive I am sorry to say." added Mr. Castle. "He said she made it her business to go round like a sneak. victimising little people and she could find out who the owner of the business was. She left without getting much satisfaction." He said he did not for one moment suggest that the quantity of poison in each of those bottles was considerable but the Poisons Board, in their wisdom, obviously expressed the view that those sort of commodities should not be handled by ordinary traders. The magistrate said "A qualified man can be disciplined if he does not keep to the standards of the profession. An ordinary trader cannot be disciplined. A pharmacist would not dare to sell these things in unlimited quantities, or any quantity, to unsuitable people."

A solicitor for the defendants said Mr. Liberman had not known that "this was on the Poisons List." He was now making a study of it.

It was not a serious or deliberate breach of an Act of Parliament, having serious consequences to the public. The magistrate: "We all know why

The magistrate: "We all know why he was doing it, He was doing this because other beauticians are sticking to the rules."

A fortnight was allowed for payment of the £50.

#### Should Not Anticipate Licence

THE Court of Appeal, London, on June 29, dismissed an appeal by D.D.S.A. Pharmaceuticals, Ltd., York Street, London, W.1, from a decision of Mr. Justice Lloyd-Jacob in the High Court on April 29 granting an interlocutory injunction restraining them from advertising or selling tablets containing chlordiazepoxide or its hydrochloride. The injunction was sought by F. Hoffmann-La Roche A.G., Basle, Switzerland, who claimed that D.D.S.A. had infringed a patent relating to their product Librium. Giving judgment, Lord Denning (Master of the Rolls) said that the Swiss company, through their English subsidiary, produced the drug Librium. They owned the patent and the court had been told that no single citation had been made against the invention anywhere. D.D.S.A. had acquired from overseas some of the substance, had made it into tablets and had sought to put it on the market—" on its face a complete infringement of patent.' the same time, they had applied for a compulsory licence under section 41 of the Patents Act, 1949. But they did not wait to get it. They obtained the substance from overseas and were selling the tablets made from it. The defendants contended that the patents were invalid, and petitioned for their revocation. They took objection to them on the ground that two of the claims were invalid in that they were so widely framed that they covered a multitude of compounds. Some of them, they suggested, might be toxic and have side effects harmful to individuals, and were therefore of no use. But they had to admit that a claim in the patent covering the very substance was quite narrow and was valid. The judge said it was quite clear that it was for the plaintiffs when seeking interlocutory relief to show a prima facie case that their patent was valid and that there had been an infringement. It was also clear that there was an infringement if the patent was valid. It seemed, said Lord Denning, that when one had a patent of such long standing all over the world, with no citation against it, much respected and not challenged until now, there was prima facie evidence of its validity. Even if other claims in the patent were so wide that the probabilities were that they were invalid, it was quite plain that one claim was valid. Section 62 of the 1949 Act said that if in proceedings for infringement of a patent it was found that any claim of the specification, in respect of which infringement was alleged, was valid, but that any other claim was invalid, the court might grant relief in respect of any valid claim which was infringed. That section was by itself sufficient ground for granting an interlocutory injunction here. On the balance of convenience, it was said for the defendants that as they were ready to keep an account of profits, and no harm would be done by letting them carry on until, as seemed likely, they obtained a compulsory licence. "But," obtained a compulsory licence. said the judge, "a person who was entitled in proper circumstances to a compulsory licence ought not to anticipate the granting of it." He must make his application and wait until he got it, with all its conditions attached. The proper course here was to restrain the defendants. Agreeing, LORD JUSTICE HARMAN said that it was another round in the war being carried on by a number of small pharmaceutical companies in the United Kingdom against the "great monopolists." It having been discovered that there were no royalties in Italy, enterprising groups of persons had imported the drugs and had advertised and circulated the trade, promising them cheaper supplies of drugs. The objection was that it was impossible to have that control over the import of such drugs as could be imposed when a licence was given, as it might be. LORD JUSTICE WINN also agreed that the appeal be dismissed.

#### COMPANY NEWS

Previous year's figures in parentheses

EVANS MEDICAL, LTD. — Mr. C. W. Robinson, M.P.S., is resigning from the board to take up a senior administrative post with the Runcorn Development Corporation.

AMERICAN CYANAMID CO.—Mr. John Allegaert has been elected president. Mr. Allegaert succeeds Mr. Kenneth H. Klipstein, who reached retirement age in March. Mr. Klipstein will continue as a member of the board of directors and the executive committee.

UNITED GLASS, LTD.—The directors intend in the near future to issue a first mortgage debenture stock for cash and at the same time to reorganise the loan capital of the group by exchanging the £598,000 6½ per cent. debenture stock 1978-82 of Key Glassworks, Ltd., for an equivalent amount of 6¼ per cent. first mortgage debenture stock 1978-82 of United Glass, Ltd. They also intend to exercise the company's right to redeem £750,000 5¼ per cent. unsecured loan stock 1964-67 at  $101\frac{1}{2}$  per cent. plus accrued interest.

LAPORTE INDUSTRIES, LTD.—The directors take a "confident view" of the future. A number of heavy investments in plant and processes are about to "yield a decent return" and from the order book some facts are known about immediate prospects. But the impending corporation tax in its present form will require substantially increased profits to be made if the company is to maintain its present dividends and retentions. External sales during the year ended March 31 totalled £26·5 millions (£24·8 millions). The E.E.C. took 33 per cent., and E.F.T.A. 12 per cent., while North America took 7 per cent. (for accounts and dividend, see C. & D., June 26, p. 650).

BEECHAM GROUP, LTD. — The main feature of the pharmaceutical division during the year ended March 31 was the continued progress of the company's new penicillins, states the chairman (Mr. H. G. Lazell), in his annual review accompanying the accounts. Substantial success was being achieved in overseas markets and at home production efficiency had been achieved without increasing the plant at Worthing. He states that the company now accounts for one-fifth of United Kingdom

antibiotic exports. A "substantial" reward was hoped for from the discoveries, " provided that the value of worldwide patent protection is not eroded.' Turning to the group's activities as a whole, Mr. Lazell states the trading profit increased by 28 per cent. to £12.4 millions; there was an increase of 59 per cent. in overseas earnings. Referring to the Government's new tax proposals, Mr. Lazell stresses the need for a "much closer look" at the facts before finally adopting a policy "which has the general effect of discouraging overseas investment." The company's total overseas investments which stand in the books at some £6 millions, have brought back to this country a total of nearly £6 millions during the last five years. In addition the overseas subsidiaries have ploughed back more than £1 million during the period, giving a total average yield on the investment of nearly 25 per cent. a year. During the period export operations earned the U.K. a further £20 millions in foreign currency—a substantial proportion of which was generated by the overseas subsidiaries. Excluding confectionery, turnover of the food and drink division increased from £20·1 millions to £22·3 millions. Mr. Lazell reports that the profit from the toiletry company in the United States was in excess of £850,000 (for accounts and dividend statement. see C. & D., May 29, p. 548).

#### **BUSINESS CHANGES**

ALFONAL, LTD., have removed to Church Road, Worcester Park, Surrey (telephone: Derwent 3877).

COW & GATE, LTD., have transferred their head office to Cross Lanes, London Road, Guildford, Surrey (telephone: Guildford 68181).

A. R. CROSS (PORTSMOUTH), LTD., have transferred their pharmacy to 15 Arundel Street (from 13 Russell Street). Managing director is Mr. A. W. Dempsey, M.P.S.

#### Appointments

HOWARDS OF ILFORD, LTD., have appointed Dr. P. V. Clifton their commercial manager (technical).

JEAN SORELLE, LTD., 21 Turle Road, London, N.4, have appointed Mr. E. D. Copley their home sales manager.

G. D. SEARLE & CO., LTD., High Wycombe, have formed a veterinary division headed by Mr. F. W. Havard, who has been appointed sales manager. Mr. D. F. Wishart, B.V.M.S., M.R.V.S., has been appointed veterinary adviser and technical manager of the new division.

GILLETTE INDUSTRIES, Great West Road, Isleworth, Middlesex, announce the formation of an international medical division to be headed in Boston, U.S.A., by Mr. P. M. Cuenin who for the last eighteen months has been managing director of Gillette Surgical (the group's British medical company). Mr. Cuenin is succeeded in the United Kingdom by Mr. C. A. Ganderton.

WHITMOYER-REED, LTD., Barking, Essex, have appointed Mr. D. J. Wallington their assistant sales manager; Mr. I. M. Groves succeeds him as regional sales manager, Southern region.

#### **OVERSEAS VISITS**

MR. G. S. WRIGHT (general sales manager, Whitmoyer-Reed, Ltd.), leaves England on July 17 for a two-week visit to America. Mr. Wright will fly first to Chicago to attend the United States Feed Manufacturers Convention and Exposition where the Whitmoyer-Reed parent company—Whitmoyer Laboratories Inc.—will be showing their range of animal health products. Later he will travel to Virginia and Pennsylvania.

#### **PERSONALITIES**

MR. H. JONES, who has been manager of Ayrton Saunders (North Wales), Ltd. since its commencement in 1961, has been appointed a local director. Mr. Jones has spent a life-time in pharmacy and has been closely connected with the pharmacists of North Wales for some thirty years.

MR. J. F. O'HARA who has been works director of R. Sumner & Co., Ltd., Liverpool, 1, since March 1955, has retired after 53 years' service with the company. He joined the company as representative in the Midlands area. Later he moved to head office and prior to the 1939-45 war was appointed works manager. A presentation of Premium Bonds was made to Mr. O'Hara as a token of the good wishes of the board and company. Mr. O'Hara was also presented with a stainless steel tea service and tray by the directors and staff.

PROFESSOR B. D. BURNS, who is at present professor and chairman of the Department of Physiology, McGill University, Montreal, has accepted an appointment to the scientific staff of the Medical Research Council as head of the division of physiology and pharmacology at the National Institute for Medical Research, in succession to Professor Feldberg, who will be retiring from this post in November. Professor Burns has been particularly concerned with neuro-physiological studies of the brain, and it is intended that his work in that field should be continued when he takes up his appointment at Mill Hill next year.

MR. I. G. MARSHALL, B.Sc., has been awarded the 1965-66 Agnes Borrowman Research Award, founded by the late Miss Borrowman, Clapham. Mr. Marshall was educated at Bolton School, Lancs, and at Hamilton Academy School, Lanarks. He graduated in pharmacy at the University of Glasgow and is at present working in the University of Strathclyde as assistant to Professor J. B. Stenlake. He proposes to use the award for research on the pharmacological action of a group of bis-quaternary ammonium derivatives of (+)—tubocuararine and (-) curarine, and their respective dimethyl ethers. The work involves the study of neuromuscular blocking properties of those compounds in order to evaluate the influence of stereochemistry in that series on their biological action. The award was made by the trustees of the fund, Sir Hugh Linstead and Professor J. W. Fairbairn.

MR. C. W. ROBINSON, M.P.S., who has resigned from the board of Evans Medical, Ltd. (see p. 32), joined that

company in 1950 as pharmaceutical development director after serving for five years as secretary of the Wholesale Drug Trade Association and the Association of the British Pharmaceutical Industry. He is a member of the British Pharmaceutical Codex Revision Committee, the British Veterinary Codex Committee and the subcommittee on agricultural and veterinary practice of the Pharmaceutical Society and of the Pharmaceutical Advisory Standing Committee of the Ministry of Health. He was the first president of the Industrial Pharmacists' Section of the International Pharmaceutical Federation and is a past chairman of the Liverpool Branch of the Pharmaceutical Society, the specialities division of the A.B.P.I., and of the Square Association. In his new capacity, Mr. Robinson will be relinquishing his active connection with pharmacy to be concerned administra-tively in the development of a new town designated for the re-housing of some 7,000 people in Merseyside.

#### **DEATHS**

ARMITAGE.—Recently, after a short illness. Mr. Norman Armitage, M.P.S., 8 Leeds Road, Hipperholme, Halifax. Mr. Armitage qualified in 1916. He had been in business as a chemist in the Hipperholme district for forty-eight years.

BOOT.—On June 2, Mr. Fred Boot, 108 Hutcliffe Wood Road, Beauchief, Sheffield. 8. Mr. Boot qualified as a chemist and druggist in 1920 and retired in 1961.

COOPER.—On June 21, Mr. William Henry Cooper, M.P.S., 582 Oldham Road, Failsworth, Manchester. Mr. Cooper, who qualified in 1919, had been ill for some time. The business in Oldham Road was established by Mr. Cooper's father. It was formed into a limited company a short time ago, with Mr. Raymond Cooper, who is not a relative, as a co-director.

GIBBS.—On June 11, Mr. John Ivor Frank Gibbs, M.P.S., 45 Penny Park Lane, Coventry, Warwicks, Mr. Gibbs qualified in 1963.

GORDON.—Suddenly, on June 28, Mr. Frank Kellas Gordon, M.P.S., 478 Union Street, Aberdeen. Mr. Gordon qualified in 1937.

HEPWORTH.—Recently, Mr. Arthur George Hepworth, M.P.S., of Hepworth's Pharmacy, Box 115, Kurow, North Otago, New Zealand. Mr. Hepworth qualified in 1933.

LEVER.—On June 11, Mr. Jacob Nathan Lever, M.P.S., 67 Central Road, West Didsbury, Manchester, 20. Mr. Lever qualified in 1910.

LIVESEY.—On June 17, Mr. George Forrest Livesey, M.P.S., 1 Bank Place, Ashton-on-Ribble, Preston, Lancs. Mr. Livesey qualified in 1911.

McMILLAN. — On June 10, Mr. James Smith McMillan. M.P.S., 132 Grosvenor Road, South Shields, co. Durham. Mr. McMillan qualified in 1932.

MUNRO.—Recently, at Basle, Switzerland, while on holiday, Mr. William Blunt Munro, M.P.S., 15 South Park Road, Hamilton, Lanarks. Mr. Munro

qualified in 1925. He was a Justice of the Peace for the County of Lanark.

OWEN.—Suddenly, on June 26, Mr. Thomas Welsh Tait Owen, M.P.S., 38 Main Street, Kirkconnel, Dumfriesshire. Mr. Owen qualified in 1937.

SCHAEFER. — On June 19, Mr. Douglas Schaefer, M.P.S., 19 Commercial Street, Rishton, Blackburn, Lancs. Mr. Schaefer qualified in 1935.

SMITH.—On June 23, Mr. Arthur Ernest Smith, M.P.S., Barrie Holm, 54 Middleton Boulevard, Wollaton Park, Nottingham, Mr. Smith qualified in 1924.

WEBB.—Recently, Mr. Albert Webb, M.P.S.. c/o 60 Brockhurst Road, Ward End, Birmingham, 34. Mr. Webb qualifield in 1934.

WOODCOCK.—On June 23, Mr. George Thomas Woodcock, 22 Roman Way, Caister-on-Sea, Great Yarmouth, Norfolk. Mr. Woodcock qualified in 1923 and retired in 1960.

WOODS.—On May 30, Mr. Hugh Matthew Alfred Woods, M.P.S., 247 Regent Road, Salford, 5, Laneashire. Mr. Woods qualified in 1924.

#### **EXPANSION PLANS**

BOOTS, Ltd., are to carry out major development of their premises at Southport and Chester. At Southport, alterations to the Lord Street shop, costing about £157,000, are to begin in October and involve installation of an escalator, new shop front and several new departments. During the alterations service will be provided from the Chapel Street branch. The Chester development involves the transfer of the Eastgate Street branch to a newly developed site nearby, with access from Eastgate Row and Newgate Street. The new building, costing £125,000, will treble the floor area to about 8,900 sq. ft.



NORTHERN PHOTOGRAPHIC DEPOT: The opening on June 1 by Agfa, Ltd., and Gevaert, Ltd., of a new depôt in Manchester marked another step towards the merger of the two companies in the United Kingdom. The newly built depôt, situated at 43 North Street, Cheetham, Manchester, 8 (Telephone Blackfriars 9854), is intended to supply the counties of Lancashire, Yorkshire and Cheshire.

E. R. SQUIBB & Sons, Ltd., Speke, Liverpool, have been given outline planning permission to erect a new factory on a 21-acre site in Read's Lane, Moreton, Ches. The new factory will cost £1 million and employ 800 people. A public inquiry was held in April when Wallasey Corporation and Messrs. Squibb appealed against the proposals of the Ministry of Housing and Local Government to re-allocate the land for residential purposes. The inspector, in his report on the inquiry, said there was no significant volume of opposition to the proposal for the factory from local residents.

#### TRADE NOTES

Title Amended.—Orders for Nostroline should be sent to Matthews Laboratories, Ltd., Berriew, Montgomerys, [Corrected note.]

Sole Distributors. — Eucryl, Ltd., Oakley Road, Southampton, are now the sole distributors of Esobactulin oral vaccine capsules manufactured by Southon Laboratories, Ltd.

Wholesaler's Advisory Service.—The shopfitting advisory service undertaken by E. H. Butler & Son, Ltd., Leicester, is promoted under the title Selmor and not as recently indicated.

Dispensing Pack. — Merrell-National (Laboratories). Ltd., 20 Savile Row, London, W.1. advise the introduction of a new purchase tax free dispensing pack of Kolantyl Gel 32 oz.

Size Increase. — Leopold Charles & Co., Ltd., 27 Whitfield Street, London, W.1, announce that Shostakovsky balsam is now being packed in 100 gm. containers only.

Wrongly Stated.—E. R. Squibb & Sons, Ltd., Regal House, Twickenham, Middlesex, regret that due to a printing error in their June trade price list, the retail price of Tarquinor ointment 1 oz. is wrongly stated and should be 3s. 6d.

Larger Size Only.—Garsalle (U.K.), Ltd., Saffron Walden, Essex, state that public demand has resulted in the decision that Ulay vitamin night cream in future will be packed in an 80 grm. jar, the present 48 grm. pack being discontinued.

Complete Packs Only. — Riker Laboratories, Loughborough, Leicestershire, are now issuing the range of Medihaler products as complete packs only. Each pack includes a plastic oral adapter. The company state that re-fill vials should be supplied against prescriptions until stocks are exhausted.

New Sizes. — Jackel & Co., Ltd., Shuna Place, Maryhill, Glasgow, N.W., have introduced a one application ½-oz. size Living Hair Conditioner in a plastics tube. The company has also made available protein shampoo in a pyramid shaped sachet containing sufficient for two shampoos.

Frankfurt Fair. - Lep Transport, Ltd., Sunlight Wharf, Upper Thames Street, London, E.C.4, draw the atten-tion of exhibitors at the Frankfurt International Fair and those who are proposing to attend the exhibition to the fact that they are the official agents for the United Kingdom and Eire.

From China. — China National Chemicals Import & Export Corporation draw attention to the availability from their various branches of a number of pharmaceutical chemicals of Chinese origin, ranging from sulphonamides, antibiotics and vitamins to steroids and piperazine salts. Details are published elsewhere in this issue.

Competition.—H. J. Heinz Co., Ltd., 103 Mount Street, London, W.I, are running a "Mini for Mother" contest until September 18. The prizes are 10 de luxe Minis, Entrants are invited to list the eight advantages of a "Mini for Mother" in their order of importance. Six Heinz baby food

labels must accompany each attempt.

Leak-proof and Non-irritant.—Down Bros. and Mayer & Phelps, Ltd., Church Path, Mitcham, Surrey, are now making available the Chiron clearseal disposable ileo/colostomy bag with an improved transparent adhesive. It is claimed that the new adhesive besides being non-irritant, ensures a satisfactory seal.

Discontinued.—PFIZER, LTD., wich, Kent, have withdrawn their preparation Nephril-R, containing reser-pine, in addition to polythiazide and potassium chloride.—JOHN BELL, HILLS & LUCAS, LTD.. Worsley Bridge Road, London, S.E.26, have withdrawn San Sat from their list and stocks are exhausted

No Change. — CIBA Laboratories, Ltd.. Horsham, Sussex, state that the formulation and method of manufacture of Antistin Privine solution has not been changed and it still includes phenylmercuric nitrate 0.002 per cent. w/v as a bactericide. If Antistin Privine solution is to be used in the eye, they recommend that it should be heated to 98-100° C. in the final closed container for thirty minutes.

Convenient Contraction. - Imperial Chemical Industries, Ltd., pharmaceuticals division, Alderley Park, Macclesfield, Cheshire, have adopted "Synalar" C as a convenient abbreviation for use in describing "Synalar" with chinoform. The company state that Prescription Bureaux have been informed and future labels and cartons for "Synalar"-Chinoform cream and "Synalar"-Chinoform ointment are to be designated "Synalar" C.

Expanding Market. — Inecto, Ltd.,

Inecto House, 27 Dover Street, London, W.1, state they are receiving a vastly increasing number of inquiries about lightening and bleaching hair. They advise that the market is expanding rapidly and arrangements have been made to cope with the increased inquiries at the advice bureau, 27 Dover Street, London, W.1, or the other bureaux in Birmingham, Manchester, Liverpool and Glasgow.

Holiday Closing.—G. H. Zeal, Ltd., Lombard Road, Morden Road, Lon-don, S.W.19, advise that their offices and works are closing on July 24 and will reopen on August 9. A small clerical staff is being retained to deal with urgent inquiries. EDWARD TAYLOR, LTD., Monton, Eccles, Manchester, are closing their factory on July 24 and re-opening on August 2. During that time a skeleton staff will deal with urgent orders. The factory will also be closed on Monday, August 30.

#### **Christmas Showrooms**

THE following have been notified: GOYA, LTO., Red Lion Hotel, Truro, July 14

ROBERTS WINDSOR, LTD., Metropole Hotel,

Brighton, July 12-15.

Fields of Bono Street, Metropole Hotel, Brighton, July 12-16.

#### **Bonus Offers**

CUXSON, GERRARD & Co., LTD., Oldbury, Birmingham. Carnation range. 10s. discount on introductory parcel

#### **Premium Offers**

COOPER, McDougall & Robertson, Lto., Ravens Lane, Berkhamsted, Herts. Special offer of a miniature Midi eau de toilette Aerosol spray to each purchaser of Fresh-aire aerosols for 5s. (saving of 5s, 6d.), Until September 30,

#### INFORMATION FOR MANUFACTURERS

Hong Kong Trade Directory. - A 1964-65 edition of the Hong Kong Trade Directory which includes a trade index and classified list of companies has been published by the Diplomatic Press & Publishing Co., 13 Cotswold Gardens, London, N.W.2, price 20s.

Stainless Steel Fabricators Listed.-A list of members of the Stainless Steel Fabricators Association, 75 Harborne Road, Birmingham, 15, is available from the Association, together with a classified list of products.

Fragrance and Perfumery.—Antoine Chiris, Ltd., Bridge House, Tadworth, Surrey, draw attention to the worldwide facilities they can offer to manufacturers using essential oils, isolates or combinations either in the manufacture of perfumes, soap, cosmetics or the pharmaceutical industry. The company claims special knowledge of essential oils, floral absolutes, chemical isolates, and are able to advise manufacturers on their use.

Measuring Animal Movements.—An idea in measuring body displacement is announced by Faraday Electronic Instruments, Ltd., Sheerness, Kent. The device (the "animal activity recorder") measures and records-without the use of tilting cages, photo-electric beams or gadgets and wires attached to the animal - movements of animals under-

going drug tests. The instrument may also be used to record movements of patients in hospital.

Distribution in Southern Africa. -A. J. North & Co., Ltd., P.O. Box 716, Cape Town, South Africa, one of the oldest-established companies in that area, offer facilities in manufacture, distribution and sales promotion for one or two large manufacturers of products in the toilet, cosmetic and household fields. The company have a factory in East London and stock depôts and sales offices in Johannesburg, Cape Town, Durban, Port Elizabeth. Cape Town, Durban, Port Elizabeth, East London, Bloemfontein, Salisbury and Bulawayo.

Booklet on Nickel Plating.—A new publication, "Nickel Plating—Tech-nique and Applications" produced by the International Nickel Co. (Mond). Ltd., discusses the surface preparation of the basis metals to be plated. Details of the preparatory treatment for nickel and nickel alloys are given in a concise table. Many applications are listed, ranging from the well-known nickel-chromium plating for decorative finishes, to industrial applications such as the protection of pipes and containers handling corrosive liquids. Copies of the booklet may be obtained free from 20 Albert Embankment, London, S.E.1.

#### NEW PRODUCTS AND PACKS

#### PHARMACEUTICAL SPECIALITIES

Fluoride Tablets. — Dental Health Promotion, Ltd., 52A Redcliffe Road, London, S.W.10, are shortly to introduce Fluor-a-day Lac tablets, described as lactose-based fluoride tablets containing 2-2 mgm. sodium fluoride. Pack is a tube of 200 tablets.

Available Under Trade Mark.—Approved Prescription Services, Ltd., Cleckheaton, Yorks, have added to their list Penicillin VK tablets 125 mgm. and 250 mgm. under the registered trade mark Apsin V.K. Both strengths are available in containers of 100, 500 and 1,000.

Syrup Formulation.—Upjohn, Ltd., Fleming Way, Crawley, Sussex, have introduced Lincocin syrup to the existing range of Lincocin capsules and Lincocin sterile solution. On prescription only, the pack is 60 mil. and the syrup contains 125 mgm. lincomycin hydrochloride monohydrate per 5 mils.

Treatment of Insect Bites and Stings.

Wasp-Eze, manufactured by West Mount Chemical Co., Ltd., 19 Borough Road, Sunderland, is said to give im-



mediate relief to insect stings of all types as well as stings from nettles and jelly fish. Packed in an aerosol spray, the preparation contains mepyramine maleate, 0.5 per cent. w/w, and benzocaine 1 per cent. w/w. The clinical trials were carried out at Newcastle University Medical School.

#### VETERINARY SPECIALITIES

Vitamin Supplement.—V-Mix, a new vitamin supplement for poultry, pigs and calves whose normal assimilation or utilisation has been upset, is announced by Whitmoyer-Reed, Ltd., Barking, Essex. Containing ten soluble vitamins in powder form, it is designed for use in the drinking water of pigs, poultry and calves. The use of V-Mix is claimed to be valuable when poultry are being vaccinated, caged, de-beaked or handled, and is particularly effective for starting chicks and poults. The contents of one sachet of the V-Mix should be mixed with each 45 gallons of drinking water for five days. That dosage is also recommended during the treatment of coccidiosis, Newcastle disease and worms in breeding flocks. For pigs one sachet to each 25 gallons of drinking water for five days is recommended, whilst for calves one teaspoonful per calf per feed for three days is advised. The dose may be given in water. glucose or milk.

#### COSMETICS AND TOILETRIES

In Collapsible Tube.—International Laboratories, Ltd., 205 Hook Road, Chessington Surrey, are to issue a new 2\frac{1}{4} oz. size of Linc-o-Lin beer sham-



poo, to replace the 2 oz. baby barrel. The new product is in a cartoned metal collapsible tube pack that is easier to use and has much better display value than the older pack.

For Tropical Complexions. — A. J. Seward & Co., Ltd., P.O. Box 1, 6 Stamford Street, London, S.E.1, have launched the Monica Smart range of beauty preparations "of international standard" claimed to be "developed specially for ladies with tropical complexions." The range includes lipsticks, face powders, talcum powder, roll-on deodorant and a special skin tone foundation cream. The range is strikingly packed in gold, white and black with a cameo motif. The company are to extend the range by the introduction of a further nine products.

For Autumn.—To meet the demand for a lighter foundation lotion, Lenthéric Limited, 17 Old Bond Street, London, W.1, have produced for the autumn season a new range called Marisse. Marisse foundation lotion is emollient and a particularly good moisturiser. It has a pleasant "nontacky" feel and gives protection from harsh winds. The lotion is easy to apply and the cover is adequate but not heavy, leaving the skin with a natural, living look. Available in five shades:—Le Touquet, Lumière, Biarritz, Nice and Cannes. To emphasis the lightness of the Lumière look, Lenthéric have also formulated a new shade of loose face powder called Lumière. Lumière Face Powder is said to fix the make-up and give a gentle matt finish but adds no overtones to the skin, leaving the overall make-up lightly transparent. The company have also introduced two new shades of lipstick. Lumière, "the truest clearest red" and La Française "a vibrant rose-pink."

Complexion Flaws Disguised. — Helena Rubinstein, 3 Grafton Street, London, W.1, announce the introduction of a new cosmetic which "hides all minor complexion flaws with a few strokes." Under the name Conceal, the product looks like a lipstick and is easily carried in a handbag. The company states that it camouflages circles and dark shadows under the eyes, covers freckles, moles, expression lines, blotches and broken veins, hides cheek

hollows, and disguises pouches and crevices around the mouth. Conceal is available in three shades, Ivory-Tone, Peach-Tone and Tan-Tone. The company has also added three new "pearlescent" lipstick colours to its Golden lipstick range. Apple blossom pink is a "delicate petal pink," Bikini peach is "truly a peach of a colour" and Bikini honey "has a luscious golden undertone": another addition is a new hand cream to the Skin Dew treatment range. The hand cream contains collagen protein and counteracts the drying effect of water, harsh detergents and weather and "brings back supple smoothness in only a few days."

#### SUNDRIES

Gift Pack.—Raywarp Textiles, Ltd., Alfred Street North, Nottingham, have added to their range a gift pack for their Chi Chi headliner in the form of a blue and cerise hexagonal box.

Repackaged.—Johnson's cotton buds, manufactured by Johnson & Johnson (Gt. Britain), Ltd., Slough, Bucks, are now being packaged in a new, easy-to-



open-box with a lift-up lid. In three sizes containing 18, 54 or 90 buds, the cotton buds are layered in the boxes with cardboard in between.

Three Shavers. — Specially designed for point of sale presentation is the pack adopted by Schick Incorporated (U.K.), Ltd., Newpound, Wisborough Green, nr. Billingshurst, Sussex, for their de luxe Magna Power shaver. The shaver is contained in a substantial travel pack of moroccan grain finish and the shaver "counter" balances the lid to tilt for display purposes. A coiled shaver lead has also been adopted so that it can easily be replaced after use a feature, the company point out, that should prove to be of great assistance when demonstrating at the counter. The Superspeed shavers, available in triple and single voltage units are claimed to have the largest shaving head area of any electric shaver on the market. Both shavers are packed in crocodile presentation cases that include a bottle of Swagger Preshave and a bottle of Shaver Clean. The Slimline Cordless Shaver is housed in a quality travel case complete with a simple charging cord. The shaver can be charged on any voltage 90-240 volts a.c. and a unique feature is the Powerlite recharge indicator giving advance warning of the need to recharge.

for examination whether or not he had

#### **BRANCH EVENTS**

BRIGHTON

Film Evening

FOLLOWING the annual meeting of the Brighton and Hove Association of Pharmacy, held recently, Mr. C. Murgarracy showed two sound films by Allen & Hanburys, Ltd. The first "This Is Your Lung" portrayed the perils of cigarette smoking, and the second "Profound Hypothermia," which was made with the co-operation of the Westminster Hospital thoracic unit demonstrated intra-cardiac surgery being carried out during complete respiratory and circulatory arrest in a still, dry, heart. A number of students were present during the showing of the films.

EDINBURGH AND SOUTH-EASTERN SCOTTISH

Twenty-five Years

THE retiring chairman of the Edinburgh and South-eastern Scottish Branch of the Pharmaceutical Society (Mr. W. S. Tait) gave a talk entitled "Pharmaceu-tical Scrapbook," illustrated by colour sides, following the recent annual meeting of the Branch. His "scrapbook" covered the twenty-five years from 1940 and he recalled the bombing of London and other cities, during which the historic pharmacy "Plough which the historic pharmacy Court" was destroyed. The Court" was destroyed. The postpone-ment of building operations on the new headquarters building then being constructed in Brunswick Square, its subsequent transfer to the University of London and the Society's search for a new headquarters formed another section of Mr. Tait's talk. The introduction of purchase tax and its persistence to the present day called forth comment from the speaker. He also made a comparison of the length of time for which medicines were prescribed, under National Health Insurance agreements before 1940 (one week), in 1946 (12.99 days estimated by the Pharmaceutical Standing Committee not including preparations for external use) and present trends. To supply a sedative or tranquilliser in sufficient quantity for fifty, 100 or even 150 days allowed a dangerous excess for use or misuse, said Mr. Tait. He thought greater use might have been made of post-dated prescription forms.

PLYMOUTH

**Developments in Education** 

Many students admitted to the honours degree course in pharmacy of the University of London might be considered by many to be unfitted for the academic standards demanded of them said PRO-FESSOR D. A. NORTON (head, school of pharmacy, Bristol College of Science and Technology) addressing a meeting at Plymouth Branch of the Pharmaceutical Society recently. Professor Norton, who was discussing recent trends in technological education, first traced the history and development of pharmaceutical education. He stated that in its early years the Pharmaceuti-cal Society had been more concerned with setting up a system of examination than with courses of instruction and training had been through apprenticeship. The student had presented himself

experienced formal tuition within a school of pharmacy. Gradually private schools had been set up and in the context of their day and age such schools had done a good job. The Society had then extended its power in overseeing the standards of education and of pre-paration for examination and subsequent registration. Many members would recall the days of the old "major" and "minor" examinations. Between the wars university degrees in pharmacy had been developed and graduates in pharmacy admitted to the register provided they fulfilled certain additional requirements such as passing the Society's examination in forensic pharmacy. However, the number of such degrees had been few and the speaker felt that the senates of some universities had been reluctant to recognise pharmacy as a university discipline. With current recognition of the colleges of advanced technology as universities, five of them possessing phar-macy schools, and with the development of pharmacy degree courses by certain technical colleges under the ægis of the Council for National Aca-Awards, the situation demic changed. He visualised that within the next few years all pharmacists would qualify through a degree course. In effect that meant that the Society's rôle as an examining body would cease but its responsibilities for standards of training would remain because of its power to refuse recognition for registration purposes of any course that did not meet the required level of educa-tion. The Society could be relied upon to use that power wisely and to apply it to reciprocal registration agreements with other countries. Professor Norton then examined the shortcomings of the traditional routes to qualification, both degree and diploma, and the criticisms that had been levelled against them. The diploma course, for example, had been described as a "dead end" for the more academically inclined student, over-biased towards general practice and offering only a narrow education.
On the other hand, when one considered the London degree taken by so many hundreds of students on the external basis, many might consider that a large proportion of students admitted to that honours course were not really fitted for the academic standards demanded of them, Professor Norton referred to the "Robbins Report" which, as a main recommendation, had urged the increase in the number of university places available in the country. The Government, in implementing the main recommendations of the Report, had agreed to the recognition of the colleges of advanced technology as universities and these were now awaiting their new charters. Internal degrees would be provided by those new universities on the same basis as their longer-established sister institutions and with the same safeguard for academic standards through the appointment of external examiners in the various disciplines. Professor Norton reminded his audience that the majority of students proceeded direct from school to university and did not come into contact with

the practice of pharmacy until after graduation. He appealed to those in practice, whether in retail, hospital or industry, to make an investment in the training of post-graduate students and he discussed briefly the possibilities of integrated academic and practical training.

Correspondence

N.H.S. Remuneration Compared

SIR,—I enclose a cutting from the local paper reporting a Dundee Executive Council meeting, and from the letter quoted from Dr. Buchanan one can see that even the medical profession do not even appreciate what a pharmacist has to do and how he is paid. I think there must be some scope here for an efficient P.R.O.

H. L. T. ROBERTSON, Dundee

[The article from the Courier and Advertiser, July 1, mentions that at a meeting of the Dundee Executive Council a letter was received from a Dr. D. W. K. Buchanan. His letter began by comparing payments made to doctors, dentists and chemists in the year ended March 31. It said: Ninety-nine doctors were paid an average of £3,119; forty-seven dentists received an average of £4,966, and fifty-four chemists averaged £5,436. The doctor then commented:

"For many, many years the general public has been under the very mistaken impression that doctors are highly paid. It must be appreciated by all concerned with the betterment of general practice in the National Health Service that general practitioners' remuneration is poor of itself and bears no comparison, for hours of work, training, responsibility, with that of dentists and chemists."—EDITOR.

Two Posers in One

"HERE'S another couple," wrote the sender of the two prescriptions here reproduced. They are, of course, from the same prescriber.

Julian D muchi en.

#### N.H.S. STATISTICS

In ABERDEEN during March the record number of 102,356 prescriptions were dispensed.

In ENGLAND during January, 17,347,240 prescriptions (1,962,532 forms) were dispensed at a total cost of £8,911,430. Average total cost per prescription 123·29d.

In BUCKINGHAMSHIRE during 1964 2,052,411 prescriptions were dispensed at an average cost of 123.87d. each. During January, 1965, 184,821 prescriptions were dispensed costing an average of 130.53d.



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TELEPHONE: CENTRAL 6565

#### Overseas Trade in Pharmaceuticals

UNITED Kingdom exports of medicinal and pharmaceutical products during May were valued at £4,885,000, against £5,503,000 in April. The total for division 54 of the Overseas Trade Accounts (H.M. Stationery Office, price 30s.), which includes surgical dressings, was £5,346,000, or some £700,000 less than in April. The various items contributing to that total are given in the table below, together with the values of a number of bulk pharmaceutical chemicals from other divisions.

Australia was again the largest single market for U.K. exports of medicinal products, the value shipped during the month being £323,000. Five other countries took over £200,000 worth. They were: Irish Republic, £262,000; France, £255,000; Nigeria, £239,000; South African Republic, £218,000 and New Zealand, £208,000. The total for the European Economic Community countries was £678,000 and for countries in the European Free Trade Association, including Finland, £706,000. For the first time, E.F.T.A. proved to be a more important market than E.E.C.

Imports of pharmaceutical products during the month were more than £1 million, which must be a record high level for any month—about 20 per cent. were antibiotics. A possible explanation of the jump may be that importers had been waiting for the first reduction in the temporary import surcharge (from 15 per cent. to 10 per cent.) which came into effect on April 27. Nearly half of the May imports originated from West Germany and the United States.

The total imports for the five months, at £3,816,000, was higher by £600,000 than in the corresponding five months of 1964, despite the surcharge. From the figures as published it would appear that the imposition of the surcharge has not had the effect of reducing the volume of imports of medicinal products, but of delaying their shipment and adding to their cost.

#### On Drawing a Cheque

WITH the modernisation of the accounting systems of banks by the introduction of computers and calculating machines, and the insertion of metallic figures in cheque books, a subtle change in the legal position of their customers has been brought about.

A recent High Court decision (Burnett v. Westminster Bank, Ltd.) should serve as a warning in relation to the drawing of cheques on accounts at banks.

In the above case, the customer had accounts at two branches of the bank, at Bromley and Borough. He was issued with a cheque book in a somewhat new form-not, however, the first of its kind which was issued to him by the branch in question—and his cheque book had printed on its front cover, the name of the customer and words clearly stating that the cheques in the book would be applied to the account of the customer named (the plaintiff in the above case). The book contained the further instruction that the customer was not to permit the use of the cheques on any other account. The plaintiff used one of the cheque forms in this book which had been issued by the Borough branch, to draw a cheque on the Bromley branch. For the purpose he substituted the name and address of the Bromley branch for that of the Borough, crossing the latter out.

Later the customer decided to stop the cheque and gave adequate notice to the Bromley branch on which the cheque had now in its altered form been drawn, to stop it. No such notice, however, was given to the Borough branch, doubtless because the customer thought it was unnecessary, since the cheque, as altered, was not drawn on that branch. But the bank ultimately paid the cheque, the cheque having made its way to the bank's central computer and it slipped through as the computer was unable to read the ink alterations made on it since they were not magnetic. For the purpose of the decision in the case it was accepted as fact that the customer had seen the writing on the front cover of the book but that he had not read them.

The Court held that sufficient notice had not been given to the customer of the alteration in the previous relationship between him and the bank, and of the new condition which the bank was seeking to introduce that cheques of one branch of the bank could only be used for drawing on the account at that branch. The wording on the old cheques, it should be noted, was merely of an admonitory or advisory character, and did not impose any contractual obligation on the customer. It is true that the bank was held liable for paying out on the cheque and were ordered to credit the customer's account with the amount of the cheque; but when the decision is analysed it will be seen that it hangs on a very fine thread. It turned on the point that the customer did not

£'000		£'000		£'000
188	Organo therapeutic glands, etc.*		Sulphonamides in bulk	71
92	in bulk	18	•	52
	products		,.	17
118	7, 7, 7, 1			1,536
73			Unclassified medicines	765
223	•			100
244				75
466				209
61				90
23				27
182				
215				227
13		461	*Not elsewhere specified.	441
	188 92 118 73 223 244 466 61 23 182 215	188 Organo therapeutic glands, etc.*  92, " in bulk, " , " products  118 Sera and vaccines  73 Aspirin in bulk 223 , products  244 Antihistamines products 466 Antipaludics products 61 Barbiturates in bulk 23 , products 182 Medicated confectionery 215 Ointments, liniments*	188         Organo therapeutic glands, etc.*           92          .,         in bulk         18            .,         products         7           118         Sera and vaccines         169           73         Aspirin in bulk         39           223         ,,         products         58           244         Antihistamines products         61           466         Antipaludics products         61           61         Barbiturates in bulk         23           23         ,         products         24           182         Medicated confectionery         121           215         Ointments, liniments*         103	Organo therapeutic glands, etc.*  Sulphonamides in bulk  Organo therapeutic glands, etc.*  Sulphonamides in bulk  Organo therapeutic glands, etc.*  Organo therapeutic glands, etc.*  Otherapeutic glands, etc.*  Organo therapeutic glands, etc.*  Sulphonamides in bulk  Organo therapeutic glands, etc.*  Organo therapeutic glands, etc.*  Otherapeutic glands, etc.*  Organo therapeutic glands, etc.*  Organic glands, etc.*  Orga

have notice of the new condition set out on the front cover of the cheque book. Had he read the condition stated on the front cover of the book, or had the condition been inserted on the cheque form itself, or had the case been one in which the plaintiff was a new customer opening an account for the first time with the bank and being issued with a cheque book in that form, the decision might have gone in favour of the bank. In any of the above circumstances, the alterations made to the cheque in the view of the Court would not have

prevented the altered cheque from still being, even in its altered form, an authority to the Borough branch, who had issued the cheque book to the customer, to pay out on the cheque.

The importance of the case cannot be too strongly emphasised. Cheques should always be drawn on the branch by which they have been issued, and any instructions given in the cheque book itself as to the manner in which the cheque should be drawn should be strictly observed.

#### HOSPITAL PHARMACY FORUM

## TECHNICAL ADMINISTRATION

BY A HOSPITAL PHARMACIST

T is obvious from the correspondence columns of the C. & D. that not all hospital pharmacists share the views that have been expressed in recent articles in this series. The majority of correspondents are critical of what they appear to think is an overstatement of the case for regarding the pharmacist as a professional scientist. Their views can be summed up by quoting a correspondent who argued that the true rôle of the pharmacist was that of "the buyer, the custodian, the compounder, the controller and distributor of the nation's drugs." That is a point of view widely held within the ranks of hospital pharmacy and it must be respected. In fact there are many experienced hospital pharmacists who believe that modern trends in the manufacture and distribution of medicines will make it increasingly difficult, and eventually impossible, for the pharmacist to gain recognition as a professional scientist like the biochemist and physicist. They see his future rôle as that of a technical administrator responsible to the governing body not only for the pharmaceutical service but for all other goods and services used directly in the treatment of patients. He would, they argue, automatically assume control of such departments as central sterile supply, and of the purchasing and maintenance of medical and surgical equipment. He would act as technical adviser to his committee on a variety of questions where a scientific viewpoint might be desirable and that would necessitate his regular attendance at meetings. He would be regarded as a senior member of the administrative hierarchy and would work in close liaison with the chief executive officer, the group secretary. He would be provided with specialist staff who would take day-today responsibility for the various activities under his control, but to his governing body he, and he alone, would be the responsible officer. That, it is suggested, should give him a status at least equal to that of the finance officer.

#### Superficially Attractive

Superficially it is an extremely attractive proposition but upon closer examination it raises serious problems making it difficult to believe that it could successfully be carried through. Prior to 1948 quite a number of hospital pharmacists had found it possible to achieve the status, if not the pay, of a senior administrator, but today the prospects are much less bright. The Civil Service does not accept the concept of a technical administrator and tends to rely on professional administrators who can, at almost a moments notice, move from say agriculture to science and technology and take over where their predecessors left off. That concept of administration now pervades the hospital service. The days when senior administrators were recruited from the ranks have virtually disappeared and in a few years' time most of the top jobs will be filled by professional administrators, most of them university graduates. The technologist has no place in

the scheme except that of an adviser on technical questions. His advice will only be sought when the professional administrator thinks it is necessary to have it, and he will be allowed to play no part in the determination of policy. That means that the salary and status of the chief pharmacist must inevitably be somewhat lower than that of the three senior members of the administrative triumvirate, a situation hardly acceptable to those who would like to see him obtain parity of esteem. Those who are inclined to doubt the proposition would do well to compare the salaries of pharmaceutical and administrative staff employed in the Ministry of Health.

#### A Bombshell

It is also virtually certain that any claim that the pharmacist should be included amongst the senior members of the hospital administrative hierarchy would be strongly resisted both by administrators themselves and by members of governing bodies. So far the idea has only been discussed amongst pharmacists and if it were made public it would undoubtedly come as something of a bombshell. There is thus little chance of achieving the objective in the foreseeable future and pharmacists who accept parapharmaceutical responsibilities in the hope that they will ultimately lead to an improvement in their status are likely to find that they will have to wait a very long time. Moreover the acceptance of a number of miscellaneous functions is likely to perpetuate the idea of the pharmacist as a "medical handyman" and in any case the responsibility is almost invariably a delegated one. If the pharmacist purchases medical and surgical equipment he does so as an agent of his administrator, whom the governing body recognises as the person carrying ultimate responsibility. That is bound to hinder rather than help the claim of hospital pharmacists to be regarded and paid as members of an independent profession. It is my belief the cobbler must stick to his last and pharmacists must stick to pharmacy for in the end it can provide the only prospect of obtaining recognition.

#### Not Enough Pharmacy

It must be admitted however that, today, it is not easy for the pharmacist to practise his speciality, a point made in previous articles and re-iterated by a number of correspondents. It is almost certainly true that there is not now enough pharmacy available to allow each of the 29,000 pharmacists on the Register to have a reasonable share, and in consequence it is not difficult to understand why many hospital pharmacists have felt it necessary to look around for responsibilities which are not strictly pharmaceutical. Certainly there is today much disquiet about the future. Many forward-looking men and women see the factory-produced medicine, which may soon be handed over to the patient in the package in which it was received, as a real threat to their existence. The correspondent who

was "quite happy to deal with the finished product" and to leave such jobs as formulation to the "relatively small number of pharmacists engaged in industry; in the research departments of some schools of pharmacy and by a few chief pharmacists in some of our teaching hospitals' may well be living in a fool's paradise.

#### Heart of the Problem

The buying, custody, compounding, controlling and distribution of drugs are functions that can be undertaken quite satisfactorily by personnel who have only an elementary knowledge of their physical, chemical and biological properties. It is not necessary, for instance, to know anything about the spatial configuration of the morphine molecule or of its effect on the sphincter of Oddi in order to purchase morphine or to make a satisfactory batch of morphine suppositories. Yet it is deemed absolutely essential for a pharmacist to have such knowledge before he can be allowed to practise his profession. If, having got it, he rarely finds a use for it and so forgets all about it within two or three years after qualification, someone is soon going to ask why the State should provide the funds necessary to teach it to him. That is the heart of the problem which today faces the hospital pharmacist. Is he to accept the rôle of a member of a learned profession working in a unique field of endeavour, where he is constantly required to make use of and to supplement the knowledge gained during his academic course, or to opt for that of a low grade technical administrator with no hope of moving up into the higher echelons of the hierarchy. The

## Onward from Galen

★ CATALOGUE OF ERRORS ★

MISTAKES that can occur between the prescribing of a drug and its administration to a patient in hospital are the subject of an article by Mr. J. Fogg (group pharmacist, Clwyd and Deeside Hospital Management Committee) in The Lancet of July 3. An appeal by Mr. Fogg for information from hospital pharmacists in various parts of the country for examples of errors of which they had first-hand knowledge produced an "immediate and disturbing" sponse. A perusal of the list, which is reproduced in the article, shows a wide variety of sources of error from bad prescribing and writing by doctors through mis-reading and guessing by pharmacists to poor arithmetic and altering of labels by nurses. Mr. Fogg discusses the errors to which each profession is peculiarly prone, pointing out that they are human failings and will inevitably arise while the present system of distributing medicine prevails. He feels that if the recommendations of the Aitken Committee had been enforced when first published they might have sufficed to control some errors but in the past few years the increase in number, potency and potential toxicity of drugs has rendered them inadequate. (Among other things the Aitken Committee recommended that, normally only prescribed medicines should be administered by a nurse, no unofficial ward stocks should be kept, standard procedures for ordering ward stocks and checking drugs administered by nursing staff should be adopted and that in all hospitals drugs should be bought, stored and inspected by a pharmacist.) Mr. Fogg alleges that incidents such as the ones described in his list are much commoner than most doctors suppose. His remedy would include frequent refresher courses for nurses and doctors and the adoption by hospitals of the advice of the Aitken Committee and others with the pharmacist being made responsible for the enforcement of a routine for prescribing, dispensing and administration of drugs. For the future he sees hope in the application of automation to medicines distribution—a technique that is already in use in the United States of America but is as yet in its infancy in this country.

choice must be made, although it may not necessarily be his to make. Basically it is a question of whether or not the hospital service can make full use of highly trained pharmacists or whether it can get along satisfactorily with technicians of a lower standard of intellectual ability. There is already an element in retail pharmacy which believes that the present standard of academic attainment is unnecessary and even undesirable under today's conditions—a philosophy that is beginning to find some support in the hospital world. Quite obviously the issue must be squarely faced and the Guild of Public Pharmacists must be congratulated on its decision to appoint a working party to study the whole question and make recommendations for the future. It is an onerous remit and a report cannot be expected within the space of a few months. When it does appear it will inevitably result in controversy but that is all to the good. There is a strong tendency for some pharmacists to assume that their scarcity value will eventually ensure an adequate level of remuneration even if not of status. In fact nothing could be further from the truth. If Parliament thought that pharmacists were being overtrained for the work they were called upon to do it would be a comparatively simple matter to amend legislation so as to give registered dispensing assistants authority to possess and dispense Dangerous Drugs. That is a possibility which must always be kept in mind. The only real scarcity value that a pharmacist can exploit is that of his unique knowledge of the properties of drugs, which must be the rock on which he must build. If his knowledge can be demonstrated to be unnecessary for the effective treatment of patients then the future is indeed black.

### RECENT RESEARCH

MECHANISM OF CATHARTIC ACTION

RESULTS of an investigation into the effect of cathartics on active sodium ion transport indicate that the classical concept of cathartic action by simple irritation with enhanced peristalsis must be re-evaluated, state workers at the United States Naval Medical Research Unit No. 2, Formosa. In a recent report (*Nature*, 1965, **206**, 1367) they describe how cascara, podophyllum, ricinoleic acid and phenolphthalein all inhibited active sodium ion transport as measured by the short-circuited frog-skin preparation of Ursing and Zehran. Further investigations in vivo using a solution containing tracer amounts of sodium 24 placed in ileal loops of adult rabbits under sodium pentobarbitone anæsthesia showed that all four agents inhibited sodium ion transport from gut lumen to plasma. That movement, state the authors, is due in part of active transport. Inhibition and resulting accumulation of sodium ions they suggest would result in accumulation of anions to maintain neutrality at about  $p_H$  8 and of water to maintain osmolality at about 300 thus providing a mechanism for cathartic action.

#### **NEW BOOKS**

Organic Reactions, Volume 14

A. C. COPE (editor-in-chief), John Wiley & Sons, Ltd., Glen House, Stag Place, London, S.W.1.  $8\frac{7}{8} \times 5\frac{1}{4}$  in. Pp. vi + 498. 105s.

Subjects covered by this volume are the Chapman re-

arrangement, α-amidoalkylations at carbon, and the Wittig reaction. Each chapter in the volumes of this series is contributed by an author or authors with experience of the processes surveyed. After a general introduction to the reaction, its mechanism, and the scope and limitations of the method, a description of particular applications is given. Each chapter concludes with a survey of experimental procedures. The information given is summarised in a number of tables, which also include compounds that have been prepared by or subjected to the reaction that were not discussed in the text. References are given throughout. Author and subject indices are provided together with a chapter index to previous volumes.

WONDER DRUG: "The active ingredient of phenacetin, used in such proprietary sedatives as Anadin and Phensic, is panacetamol." (sic). Observer, December 13, 1964.

## 3. FINAL YEARS OF THE Liverpool Apothecaries' Company

T. D. WHITTET, B.Sc., Ph.D., F.P.S., F.R.I.C., D.B.A. [Other articles on the Company have appeared in the C. & D., September 8, 1962, p. 278, and March 2, 1963, p. 233]

T a relatively late stage in its history the Liverpool Apothecaries' Company seems to have come under the management of George R. Berry, who issued the following undated circular:

Sir,—The management of the business of the Liverpool Apothecaries Company having been placed in my hands, and having for many years been engaged in the preparation of the various articles of the Pharmacopæia's of the Colleges, as well as new remedies as they have been brought into use, both here and in London, I am able to guarantee the compounding of every Prescription in the most accurate manner.

All Drugs and Chemicals are tested by myself before their employment either in Dispensing or in the Compounding of medicines. Prescriptions are dispensed under my own immediate superintendence.

The preparations of the active principles of Plants, etc., have for some time engaged my attention, and as they appear to be rapidly advancing into general use among the Profession, I beg leave to subjoin a brief notice of the properties, doses, etc., of some of them, which have not as yet been introduced into the Pharmacopæia; at the same time I add a list of several other medicines, the extended application of which has been limited by the uncertainty of their strength, as made by dif-ferent Pharmaceutists, and of which I now present a fixed and appropriate dose.

I am, Sir, Your obedient Servant, GEORGE R. BERRY

Manager, Liverpool Apothecaries' Company, and Consulting Chemist to the Manchester and Liverpool Agricultural Society.

Attached to the circular was a list of drugs and preparations with brief notes on their properties, etc. Principal among the items were elatrine and its solution; digitaline and its solution; aloine; jalapine; scammonine; santonine; colchicine and its compounds; medicated pessaries (Professor Simpson's formulas) of zinc, lead, mercury, lead iodide, tannin, alum and catechu, and belladonna; nickel sulphate; cerium oxalate and nitrate; liquor arsenici et ferri iodidi (Dr. James Petrie); quinæ et ferri citras; liquor ferri persesquinitratis dil.; acid nitrate of mercury (Dr. J. H. Bennett's "Treatise on Ulceration of the Cervix Uteri"); acid hydrocyanic (Scheeles' strength); æther chloricus; carbazotic acid and carbazotates (Professor Calvert).

The circular concludes

In addition to the active principles described in the Pharmacopæias, rare chemicals, organic and inorganic, are always in stock for experimental and other purposes, and all new remedies employed by British and Foreign observers and discoverers will be obtained or manufactured on the shortest notice. Medicines prepared and kept according to the original formulæ of the profession when desired. The Hall is open at all hours for dispensing, and no exertion will be wanting to secure by accuracy the confidence of the prescriber and the patient.

#### Association with General Apothecaries' Company

The Liverpool Apothecaries' Company appears to have become eventually a branch of the General Apothecaries' Company, which existed from about 1856 until 1959, when it went into voluntary liquidation. Dr. H. G. Howitt, the last chairman of the company, gave the present writer its surviving documents, including several minute books and a manuscript "Deed of Settlement." Dr. Howitt believes the Company originated in Birmingham, but that the business was soon transferred to 49 Berners Street, London, W.1, where a pharmacy existed until the outbreak of the 1939-45 war. The wholesale department in Bishopsgate continued until 1959. Unfortunately the company's first minute book is missing, and there is only a brief reference in book two to the Birmingham branch, at 24 Paradise Street. That branch appears to have failed completely, but there are several references to the Liverpool branch in the volume.3 In the Wellcome Medical Historical Library is an undated copy of a broadsheet stating

SOME Gentlemen are about to establish a General Apothecaries Company, for the purpose of supplying the Public and the Medical Profession with Unadulterated Drugs and Chemicals, Invalids' Foods, Condiments, Sanatory (sic) and Domestic Articles; to prepare Physicians' and other Prescriptions, Photographic Chemicals, Etc. Etc. The Company is Provisionally Registered under the Act, 7 and 8 Victoria, cap 110 and the new Limited Liability Act."

The broadsheet is in somewhat similar terms to those used by the Liverpool memorialists. It draws attention to the "almost universal adulteration of Medicine, Chemicals and Condiments" and refers to the evidence given to a Select Committee of the House of Commons in the 1855 session by Drs. Thomson, Hassall, Normandy, John Simon Esq. and Sir J. Gordon." The following passage also occurs :-

THE City Apothecaries' Hall is conducted by a similar Company, but although that Company has given very large profits to the Shareholders, it is so restricted by bye-laws and an antiquated mode of administration, as to fail in meeting the demand of the Public, particularly of the wide spreading population of the various Districts of the Metropolis, and by the country at large.

To encourage possible shareholders the broadsheet stated "The profits made by preparing and selling Drugs and Chemicals are enormous, many articles in daily use in families being sold for ten, and even twenty, times their prime cost." The capital was to be £10,000, made up of twenty-five or more shares of £50. The broadsheet was signed by Dr. Ridge, Gravesend, by John Gardner, M.D., 51 Martime Street, Cavendish Square, and by E. Moss, solicitor, 23 Moorgate Street, City.

#### Arrangements to Avoid Adulteration

The fact that the Liverpool company is not mentioned suggests that possibly the two companies were not then connected. If, on the other hand, a branch was already established in Birmingham then it is surprising that it was not mentioned. Two further circulars issued in 1856 5,6 further emphasised the prevalence of adulterated drugs. Notice was given in one of the circulars of the first establishment of the General Apothecaries' Company (Limited) at 40 Berners Street, and the claim was made that the directors had

made arrangements for obtaining the best and purest Drugs and Chemicals which can be procured. They have fitted up extensive and complete Laboratories and Drug Mills-for grinding the Powders and preparing the vegetable alkaloids, extracts and every form of remedial agents. They have engaged the services of Scientific Chemists, to subject to the strictest testing

SOLUTION OF

#### PYROPHOSPHATE OF IRON AND SODA.

See Record, No. 3, p. 12. Dofe, from one to three drachms. N.B. Must be kept in a cool place.

Prepared in the Laboratories of the

GENERAL APOTHECARIES' CO. (Limited,)

49, BERNERS STREET, LONDON. W. 4, Colquitt Street, LIVERPOOL.

24, Paradife Street, BIRMINGHAM.

A label, more than a century old, of the General Apothecaries' Co., providing the only remaining evidence of the address of the Birmingham branch of the company.

and analysis every substance they sell, and for preparing with Scientific accuracy all compounds. They have opened an extensive establishment for supplying the public with medicines in all forms, preparing Physicians' and other Prescriptions, fitting up medicine chests, and selling all the varieties of invalids' food.

One of these documents was signed by Dr. Ridge, chairman, and Dr. Gardner, managing director. Both were Licentiates of the Society of Apothecaries.

#### Aims of the Company

The aims of the company were given in a manuscript document dated December 7, 1855, and entitled "Abstract of the Deed of Settlement of the General Apothecaries

Company, Ltd."2 Clause 2 reads

THE business of the Company—To supply the Medical Profession and the Public with unadulterated Drugs and Chemicals, Food for Invalids, Condiments and other sanatory (sic) and domestic articles. To prepare physicians' and other prescriptions and to manufacture and sell articles used in the photographic and other arts and generally to deal in all such articles and substances as are used directly or indirectly in Hygien (sic). The Practice of Medicine and the Arts and Science or are ordinarily sold by Apothecaries, Chemists and Druggists and the makers of medical and surgical instruments or appliances.

The first directors were John James Ridge, Edward Johnson, Henry Hardinge, John Gardner, George Henry Smith and John Charles Atkinson. Ridge, Johnson, Gardner and Atkinson were Licentiates of the Society of Apothecaries.

First mention of the company's Liverpool branch in minute book 2 was on February 18, 1860, when the profit for the half-year was £155 19s. 2d., an increase of £35 10s. 7d. on the previous half-year. The Birmingham branch is recorded as having been closed since the previous meeting, but debts amounting to £197 18s. 4d. were still in course of collection. The company was dissolved and reconstituted on February 18, 1860. Among the shareholders listed for the new company was Joseph Anderson, M.D., manager of the Liverpool company, and now a director. Another name in the list of shareholders is that of John Postgate, probably the pioneer of pure foods and drugs, who started his career as an apothecary at Leeds Public Dispensary and later became a professor of medical jurisprudence in Birmingham.

Among the rules of the General Apothecaries' Company was one that no person carrying on the business of a chemist and druggist could be a shareholder.2 That is in contrast with the 1836 Constitution of the Liverpool Company, which includes a rule that preference in the purchase of shares should be given to chemists and druggists. In revised rules of the General Apothecaries' Company, printed in 1888, the clause was omitted.8 The Liverpool branch made a profit each year until the second half of 1870, when a loss was incurred. Further losses were reported each half-year until the liquidation of the branch in 1874. At a meeting on March 27, 1863, a letter was received from Dr. Anderson of the Liverpool branch asking for an increase in remuneration for the directors of that branch and quoting an agreement with the old company. A reply was sent saying that the London board could take no cognisance of any special arrangements that existed or were supposed to exist before the formation of the present company. On June 12 it was recorded that scrutiny of the old minutes showed no sign of any agreement, and Dr. Anderson was asked for a copy. At the company's annual meeting on August 29 the board was authorised to pay to the directors of the Liverpool branch "any such further remuneration as they may deem necessary and advisable.'

On November 13, 1866, the Liverpool auditor was reported as having died, and it was resolved that, in future, the auditor of the London office should be sent down periodically. In February 1867 the manager of the Liverpool branch was asked for an explanation of certain charges in the branch's half-yearly accounts, and a similar request was made on July 25. They were addressed to Mr. Hackett, who



THE

GENERAL APOTHECARIES COMPANY

(LIMITED).

CAPITAL,-£10,000.

With power to increase to £100,000.

FOR THE PURPOSE OF SECURING TO THE PROFESSION AND THE PUBLIC
A SUPPLY OF UNADULTEBATED DRUGS & CHEMICALS,

AND FOR THE

Perparation of Prescriptions with Scientific accuracy.

THE Inquiry instituted by the House of Commons during the Session 1855-6, by a Committee, has shown that the practice of adulteration and aophistication of Medicious has prevailed so generally as seriously to affect the character of the profession, and to neutralize the benefits derived by the public from the art of heating.

The unimpeachable testimony of SCHEMTIFIC CHEMISTS, went to prove, that when a Physician writes a prescription he is wholly uncertain whether the medicine when

Part of the prospectus of the General Apothecaries' Co.

then appears to have been its manager. (Thomas Hackett was one of those admitted to the original register of pharmacists. He was managing partner of the Apothecaries' Company for thirty-five years, and died at Frieston House, Gainsborough Road, Liverpool, on December 7. 1896.<sup>9</sup>) Apparently explanations were satisfactory, for the accounts were passed by the auditor on August 15. At the same meeting a letter was received from Dr. Anderson, containing complaints about instructions given to the auditor and communications made by the board of directors to Mr. Hackett. The secretary was asked to reply.

#### Strained Relations

Relations between London and Liverpool were evidently strained, for at a meeting on May 25, 1872, the London directors decided to call an extraordinary general meeting to consider the position of the Liverpool branch. A letter explains the cause:—

Your Directors have to acquaint you that the lease of the premises occupied by this Company in Liverpool expires in October next and that they have endeavoured to obtain a renewal of the same but have found difficulties arise in consequence of the Gentlemen who have hitherto taken the principal Management of that Branch having become owners of the property since the said lease was first granted. The present owners decline continuing this Company as Tenant on the same terms and also refuse to propose any other terms. Your Directors feel that they are in a difficulty and think it desirable that these Gentlemen should cease to act on behalf of the Company. Your Directors will explain their views fully at the Meeting and intend to propose the following Resolution: "That this meeting deem it expedient and hereby dismiss from this date from the service of the General Apothecaries Company (Limited) the following Gentlemen:—Dr. Jos. Anderson, 9 Oxford Street, Liverpool, Dr. Jas. Petrie, 13 Upper Parliament Street, Liverpool, Geo. C. Sanderson, Esq., Claughton Road, Birkenhead . . ." (Anderson and Petrie were among the original founders of the Liverpool Company.)

The meeting was held on June 4, and the resolution was carried unanimously, being confirmed by a second extraordinary general meeting, held on June 20, when a letter was received from Mr. Hackett declining to accept management

of the intended new Liverpool branch. The London manager was authorised to obtain a substitute for him as soon as possible. In the meantime, on June 18, the London manager (Mr. Harris) reported having obtained the refusal of premises situated at No. 4 Bold Street, Liverpool; he was authorised to take the premises and to make any alterations he thought necessary. On August 18 he was instructed to dismiss the Liverpool staff so soon as he could dispense with their services, and to engage others. The half-yearly report of December 31, 1870, records that the owners of No. 4 Colquitt Street had not scrupled to start a business in opposition to the company, though still receiving rent at the rate of £300 a year from them. They had hired a shop in Colquitt Street, adjoining No. 4, and induced the Liverpool manager to join them. Despite setbacks the outlook, with the opening of the new premises, was reported as good. The optimism was not justified, for each successive report showed a loss for the Liverpool branch and, in that presented at the meeting of February 22, 1873, the directors reported that they had determined to close the branch and had entered into negotiations to do so.

#### Final Reference

The final reference to the Liverpool branch was the liquidation account issued in March 1874. It showed that the net result of the sale of lease, fittings, furniture, stock and book debts was £1,271 14s. 9d., and that the net loss in trading was £2,059 6s. 7d. Thus the Liverpool venture ended after thirty-eight years, though the London Company was to survive for a further eighty-five years.

The Hall remained in existence until 1941. O'Leary' in

1934 stated that it fell on evil times and was then used by the Burlington Rooms and Cafe, Ltd. John Rae in a personal communication has given the following account of its last years :-

I REMEMBER the Apothecaries' Hall and it was a very fine building. When I first knew it, it was used as a cafe and afterwards as a warehouse by Mortons who were very high-class furnishers in Bold Street, but closed down during the war. In the May blitz of 1941 the old Apothecaries' Hall was completely destroyed by a land mine, and the site is now occupied by one of Wetherall's factories.

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THE author is grateful to Mr. John Rae, F.P.S., Dr. H. G. Howitt, M.R.C.S., L.R.C.P., L.M.S.S.A., and the City of Liverpool Library for information and materials on which these articles were based.

#### SHOPFITTING NOTES AND DISPLAY

Shelving.—Pharmacists who are about to revise the lay-out of their shop premises are recommended to write to Savage & Parsons, Ltd., Watford, Herts, for their literature on Spur gondolas.

Cheaper Shopfronts. — Beanstalk Shelving, Ltd., Chichester, Sussex, claim that by using prefabricated basic components they can often achieve 20 per cent. saving on cost. The company offer a choice of materials and over 500 designs. They arrange to obtain the necessary planning permission and will also plan and undertake shop layouts.

Light Enough for Ladies.—Durlston display units, supplied by Durlston Designs, Ltd., 46 Durlston Road, Kingston, Surrey, are stated to be so light to handle as to be easily erected by ladies. Fixing requires only a screwdriver and pliers and is claimed to give an "immensely strong" structure easily dismantled for an alteration in the display.

Air Humidifier. — The Felvic air humidifier is electrically operated and combines robust construction with an



attractive design. Of Swiss manufacture it has a water-carrying capacity of 6 pints. An electrically operated turbo type impeller produces a steady flow of micron atomized water particles. The unit is offered in the U.K. by Felvic Marketing and Sales Co., Ltd., 70 Carolina Road, Thornton Heath, Surrey, at £12 12s.

Display Sets in Wire.-Middlehurst, Ltd., Brock Lane, Maidenhead, Berks, report sales "beyond our most optimistic forecasts" of their Helter Skelter display sets, enabling the company to organise production on a "semi-mass" basis at lower prices. The Helter Skelter occupies a floor area of 25 x 25 in., is 63 in. high to top of centre pole, has an overall diameter of 23 in., and is provided with six semi-circular baskets, each 63 in. deep. The baskets are polythene coated and the base of the stand is finished in red or blue stove enamel. Also available from the company is a Tumble bin (No. JN/102) with a "new look," strong and durable, top diameter 17 in., height 29 in. The white bin is available on black or red stand.

Readily Adaptable.—An economical ready-made illuminated sign has been made available by the Neoflo Group of Companies, 126 Putney Bridge Road, London, S.W.15. Known as the Slimline, the signs have been designed to give a modern appearance. During the day, each sign has clear-cut definition, and at night, maximum illumination. Signs can be installed in either the "portrait or landscape" positions. The Slimline major is 36 by 24 ins., and the Slimline minor is 36 by 14 ins. Each sign consists of a lead coated sheet steel cose with square cutter and sheet steel case with square outer and



curved inner corners. There are face panels of moulded Perspex. The lettering and, where applicable, the designs, are cut from coloured Perspex or Oroglas, and applied to the panels. The sign is illuminated by fluorescent white cold cathode tubing. Transformers that operate the tubing are housed within the sign case. The metalwork is stove enamel finished, there being a choice of six standard colours, all hammer finish—sea foam green, lilac, steel blue, gunmetal, bronze, and burgundy, although the company will, in fact, provide any colour of enamel finish. The signs may be fixed direct to a wall or by stand-off bracket or hung by hooks, bracket and stay arms. Slimline signs may be installed, maintained by quarterly visits for cleaning and repairs, and also given a 24hour emergency service on a rental maintenance basis which also covers comprehensive insurance; or alternatively may be purchased outright, the cost varying according to location and installation details. Quotations include any necessary surveys, drawings and application for Town and Country Planning consent.

#### AGRICULTURAL CHEMICALS

#### Recommendations for safe use

THE Ministry of Agriculture, Fisheries and Food has issued recommendations for safe use in Great Britain for a number of products. The Ministry states the use of paraquat garden herbi-cide (Weedol) should not present a hazard to home gardeners provided the following precautions appear on the label:

KEEP OFF SKIN. AVOID INHALING SPRAY,

WASH AFTER USE. KEEP AWAY FROM PETS.

STORE IN A SAFE PLACE AWAY FROM

The recommendations are to be reviewed at the end of the 1965 season. The recommendations in respect of the herbicides cycluron (N-cyclo-octyl-NN-dimethylurea) and 2-but-3-ynyl-N-(3-chlorophenyl) carbamate (BiPC) re-

quire the following should appear on the labels: Solid or liquid concentrate

Can be irritating to the skin, eyes, nose and mouth.

WEAR RUBBER GLOVES when handling the concentrate

WASH CONCENTRATE from skin or eyes immediately.

AVOID WORKING IN SPRAY MIST, WASH HANDS AND EXPOSED SKIN before

meals and after work.
HARMFUL TO FISH, Do not contaminate

ponds, waterways and ditches with chemical or used container.

STORE TIGHTLY CLOSED in a safe place. WASH OUT CONTAINER THOROUGHLY and dispose of safely.

Both cycluron and BiPC may be used as a pre-crop emergence or postcrop emergence herbicide on any edible crop. Again the recommendations are to be reviewed at the end of the 1965 season.

The Ministry state no special precautions appear to be necessary for the protection of the operator when using thiabendazole, available in Thibenzole feed-pellets. Provided that thiabendazole is administered to cattle at a rate not in excess of 100 mgm./kg. or to sheep at a rate not in excess of 66 mgm./kg. such use of thiabendazole as an anthelmintic in cattle, including lactating cattle, or sheep should not present a hazard to consumers.

The growth regulator, tributy1-2,4-dichlorobenzyl phosphonium chloride, contained in Phosfon liquid and Phos-

fon 1.5 are to be labelled:

Liquid concentrate Phosfon can be irritating to the skin and eyes. WEAR RUBBER GLOVES when handling

the concentrate. WASH CONCENTRATE from skin or eyes immediately.

WASH HANDS AND EXPOSED SKIN before meals and after work.

Solid ready for usc

WEAR RUBBER GLOVES when handling the solid.

WASH ANY PARTICLES from skin or eyes immediately.

WASH HANDS AND EXPOSED SKIN before meals and after work.
O NOT CONTAMINATE

PONDS. WATERWAYS AND DITCHES with chemical or used container.

STORE TIGHTLY CLOSED in a safe place. WASH OUT CONTAINER THOROUGHLY and dispose of safely.

The Ministry state the use of the compound on potted chrysanthemums grown under glass is acceptable but there is insufficient information to enable recommendations to be made on the safe use of the chemical on any other crops.

The labels on N-dimethylamino succinamic acid (a growth regulator), contained in B-nine, are required to in-

clude the following:-

WASH HANDS before meals and after work. DO NOT CONTAMINATE PONDS, WATER-WAYS AND DITCHES with chemical or used container.

STORE TIGHTLY CLOSED in a safe place. WASH OUT CONTAINER THOROUGHLY and dispose of safely.

The use of the compound on a nonedible crop is acceptable but the Ministry state there is insufficient information to enable recommendations to be made for the safe use of the chemical on any edible crop.

No special precautions appear to be necessary for the protection of opera-tors when using furazolidone offered for veterinary use as contained in Neftin piglet medicator. The Ministry point out that tissues from piglets which have been treated with furazolidone at the recommended rate should not be used for human consumption unless one week has elapsed between the last treatment and slaughter.

It is considered that the organophosphorus insecticide and acaricide demeton - S - methyl (S - [2 - (ethylthio) ethyl] dimethyl phosphorothiolate) should be included in the Agriculture (Poisonous Substances) Regulations as a Second Schedule, Part III substance. The Regulations require an operator to wear protective clothing in certain conditions. Other precautions that should appear on the label are:

WASH GLOVES thoroughly after use, especi-

ally the insides.

REMOVE heavily contaminated clothing im-

WASH CONCENTRATE from skin or eyes

immediately.

AVOID ALL CONTACT BY MOUTH.

AVOID WORKING IN SPRAY MIST.

WASH HANDS AND EXPOSED SKIN beforc eating, drinking or smoking and after work.

Demeton-S-methyl is an organophosphorus compound.

DO NOT USE demeton-S-methyl if under medical advice NOT to work with such compounds.

HARMFUL TO LIVESTOCK, Keep all livestock out of treated areas for at least two weeks.

DO NOT USE ON ANIMALS.

HARMFUL TO GAME, WILD BIRDS AND

ANIMALS.
HARMFUL TO BEES. Do not apply at flowering stage. Keep down flowering weeds.
HARMFUL TO FISH. Do not contaminate pond, waterways and ditches with chemical

or used container. STORE TIGHTLY CLOSED in a safe place under lock and key.

WASH OUT CONTAINER THOROUGHLY and dispose of safely.

It is recommended that the label for trichlorphon, an organophosphorus insecticide (dimethyl 2,2,2-trichloro-lhydroxyethyl phosphonate) should include the following precautions:-

Solid concentrate KEEP OFF SKIN. AVOID INHALING SPRAY. WASH AFTER USE.

KEEP AWAY FROM BIRDS, FISH AND PETS.

STORE IN A SAFE PLACE AWAY FROM CHILDREN.

DO NOT PICK PRODUCE within two days of treatment.

Dust ready for use KEEP OFF SKIN

AVOID INHALING DUST.

WASH AFTER USE, KEEP AWAY FROM BIRDS, FISH AND PETS.

STORE IN A SAFE PLACE AWAY FROM CHILDREN. DO NOT PICK PRODUCE within two days

of treatment. The Ministry state that Dimexan (di(methoxythiocarbonyl) disulphide), a

herbicide, should be labelled:-Liquid concentrate

Dimexan can be irritating to the skin, eyes, nose and mouth.

WEAR RUBBER GLOVES when handling the concentrate.

WASH CONCENTRATE from skin or eyes immediately.

AVOID WORKING IN SPRAY MIST.

WASH HANDS AND EXPOSED SKIN before meals and after work.

DANGEROUS TO FISH, Do not contaminate ponds, waterways and ditches with chemical or used container.

STORE TIGHTLY CLOSED in a safe place. WASH OUT CONTAINER THOROUGHLY and dispose of safely.

Its use as a pre-crop emergence herbicide on any edible crop should not present a hazard to consumers.

In a number of cases the Ministry point out that where compounds are formulated with other compounds for which additional recommendations are made, care should be taken to ensure labels are prepared accordingly.

#### APPROVED PRODUCTS

THE Agricultural Departments of the United Kingdom announce that the following products have been approved under the Agricultural Chemicals Approval Scheme. ungicides

COPPER WITH MANEB WETTABLE POWDERS: Pereman (Plant Protection, Ltd.).

Herbicides

MECOPROP POTASSIUM AND SODIUM SALT FOR-MULATIONS: Bugges C.M.P.P. selective weedkiller concentrate (Bugges Insecticides, Ltd.). 2,4,5-T ESTER FORMULATIONS: Trioxone 100 (Plant Protection, Ltd.).

DICHLORPROP WITH 2,4-D AMINE SALT FORMU-LATIONS: Hormatox Plus (Baywood Chemicals, Ltd.). Profarma 2.4-DP+2,4-D (Profarma. Ltd.).

#### WORLD TRADE

Returned to Private Owners.—Syria has returned fifteen pharmaceutical firms to their private owners by a decree issued recently. They were among forty firms in Damascus and Aleppo nationalised on February 18.

New Acetic Acid Process. — The Weyerhaeuser Co. has announced that it has developed a new process for making acetic acid from sulphite pulp mill liquors. It will use the process at its sulphite mill at Cosmopolis, Washington, United States.

Argentine Veterinary Drug Imports.

—Argentine Central Bank Circular
R.C. No. 230 stipulates that certified imports of drugs, medicines and raw materials used for veterinary purposes will be exempt from the 75 per cent. prior deposit requirement except in respect of advance payments or purchases of forward exchange.

#### TRADE REPORT

The prices given are those obtained by importers, or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, JULY 7: The CRUDE DRUGS market was inactive during the week and no major price changes occurred.

Information about new crops seems to be received later each year and news of several items is awaited. Meanwhile, because of lack of offers at origin, most prices were held at previous levels, despite the slowness in demand. African GINGER was lower by 5s, a cwt. in both positions. Spot MENTHOL was down by sixpence per lb. and Italian SQUILL by 5s. a cwt. at origin and on the spot. On the other hand, SENEGA for shipment rose by sixpence per lb. Among Aro-MATIC SEEDS, Moroccan CUMIN was dearer at 247s. 6d. per cwt., c.i.f. Australian light-amber Honey was dearer by 5s. per cwt., and the market was expected to contintue to improve. The medium-amber prices were firm at former levels but are expected to rise in the next few weeks.

Among ESSENTIAL OILS, the downward trend in the price of CITRONELLAS continued. Lack of demand for GRAPE-FRUIT caused holders to shade their prices. Sicilian Lemon and Tangerine were unchanged with demand reported quiet. Chinese PEPPERMINT was down threepence per lb. in both positions and the Brazilian by three-haffpence on the spot. The new Brazilian spot rate was threepence lower than offers from origin. Mysore Sandalwood was quoted at 108s, per lb. The firm trend in CAR-DAMOMS caused the oil to advance 75s.

No changes were advised by manufacturers of PHARMACEUTICAL OF FINE CHEMICALS during the week.

#### **Pharmaceutical Chemicals**

Prices below may be subject to temporary import surcharge.

Amidopyrin. — Per lb. 16s, 8d, for 5-

cwt. lots; 1-cwt., 17s. 5d.

AMPHETAMINE. — BASE is 150s, per kilo in 5-kilo lots and sulphate, 120s.; Dexamphetamine, 270s. per kilo for 10 kilos.

AMYLOBARBITONE, — B.P.C. is 74s, per kilo for less than 25-kilo lots. Sodium is 10s, per kilo more.

BARBITONE, — SODIUM 46s. 8d. per kilo for 50-kilo lots.

BENZYL BENZOATE, - B.P. in 1-ton lots, 4s. 6d, per 1b.

Bromides.—Crystals (per kilo):—

	 -	· \F	/ -
		Under 50 kilos	50 kilos
POTASSIUM*	 	s. d. 6 3	s. d. 5 8
SODIUM	 	6 3	5 8
AMMONIUM	 	7 2	6 7

\*Powder is fourpence per kilo more.

Brucine.—In 1,000-oz, lots, alkaloid is 19s, per oz, and sulphate, 17s, 6d, per oz. BUTOBARBITONE. — B.P.C., 80s. per kilo

for 25-kilo lots and over.

Cantharidin. — Per oz. 222s. 6d. for 4-oz. lots.

CARMINE.—One-cwt. lots are 180s. per lb. CHLOROCRESOL.—Pharmaceutical quality, 7s. 7d. per lb. (1-cwt. lots).

Chloroform. — 35-litre lots in winchesters, B.P., 11s. 5½d. per litre; in drums, 10s. 7d.; 175-litre lots, 11s. and 10s. 1½d.

Chlorophyll. — Water-soluble, 100 per cent. (medicinal grade), 250s, per lb.; oil soluble, 25s. per lb.

Chloroxylenol. — B.P.C., 5s. 3d. per lb. for 5-cwt. lots; 5s. 1d. per lb. for 1-ton

CITRATES.—Per kilo:—

	50 kilos	250 kilos	I,000 kilos
6	s. d.	s. d.	s. d.
SODIUM†	1	4 10	4 8
IRON AND	3 /	3 1	4 11
AMMONIUM*	9 8	9 4	9 1

COCAINE. — 35-oz. lots hydrochloride, 105s. per oz., ALKALOID, 115s Subject to D.D.A. Regulations. 115s. per oz.

CORTISONE. — One-kilo lots, 4s. 6d.; HYDROCORTISONE ACETATE OF ALCOHOL, 4s. 6d. per gm.

CREAM OF TARTAR.—Home-trade:—One-ton lots, 241s. per cwt.; 10-cwt., 242s.; 5–9-cwt., 243s.; 2–4-cwt., 244s.; 1-cwt., 245s. (If supplied in bags deduct 5s.)

CREOSOTE.—B.P.C., 1959, ex beechwood, 100 kilos, 15s. per kilo; 500 kilos, 14s. 6d. CRESOL .- B.P. quality, 7s. 9d. per gall.

in 5-gall, lots. CYCLOBARBITONE.—Under 25 kilos: B.P.,

73s. per kilo. CALCIUM, 80s. per kilo. DICOPHANE. (DDT.) — One-ton lots, 70–74 per cent., 2s. 3d. per lb.

DIENOESTROL.-B.P. is 1s. per gm. for 5-kilo lots.

DITHRANOL.—B.P. offered at 6s. 9d. per oz. for 7-lb. lots.

EPHEDRINE.—ALKALOID nominally 6s. 6d. per oz.; SULPHATE, 4s. 6d. and HYDRO-CHLORIDE, 4s. 3d. per oz.

ERGOMETRINE.—MALEATE, B.P., 152s. per gm. for 5-gm. lots; Ergotamine tartrate, 29s. 6d. per gm. for 100-gm. lots.

ERGOTOXINE. — ETHANESULPHONATE, 10-gm. lots, B.P. '32, 60s. per gm. B.P.C. '49

ETHER. — Per lb. in winchester: B.P. TECHNICAL, B.S.S., 5-cwt., 2s. 9d.; (4s. 4d. per litre). In drums the price is 2s. 1d. per lb. ANÆSTHETIC, B.P., 6-cwt., 3s. 11½d.; 10-cwt., 3s.  $7\frac{1}{2}$ d.

GLYCEROPHOSPHATES. — Per kilo in 50-CITCEROPHOSPHAIES, — Fer Kilo in Sukilo lots: Calcium, B.P.C., 28s. 2d.; B.P.C., 35s. 5d.; MANGANESE, N.F.X., 49s. 7d.; POTASSIUM, 50 per cent., B.P.C., 8s. 6d.; SODIUM, 50 per cent., B.P.C., 5s. 11d. and powdet, B.P.C., 1949, 18s. 8d.; GLYCEROPHOSPHORIC ACID, 20 per cent., 10s. 8d.

HEXOBARBITONE: — 25-kilo lots or over, 115s, per kilo.

Homatropine. — 16-oz. lots (pet oz.): alkaloid, 30s. 6d.; hydrobromide, 24s. 6d.; hydrochloride, 28s. 6d.; METHYLBROMIDE, 25s. 6d. 1-oz. rates are 1s. 6d. per oz. above those rates.

HYOSCINE HYDROBROMIDE.—Per oz. 102s, and per kilo, 3,595s.

HYPOPHOSPHITES.—Per kilo:-

Quantity	I kilo	12.5 kilos	50 kilos
CALCIUM, B.P.C	s. d.	s. d.	s. d.
	17 2	16 1	15 1
IRON, B.P.C	34 10	33 7	32 5
MAGNESIUM	29 3	28 2	27 2
MANGANESE, B.P.C.	35 3	33 11	32 9
POTASSIUM, B.P.C.	23 1		21 4
SODIUM B P C	19 2	18 1	17 1

IODINE.—Resublimed in less than 50-kilo lots, 30s. 6d. per kilo; 50 kilos and over, 29s. 9d. Minimum delivered rates for CRUDE is 18s. 7d. per kilo.

IODOFORM.—Powder (per kilo), 55s. 3d. in 50-kilo lots; less than 50-kilos, 56s. 9d. Crystals are 6s. 6d. per kilo more.

Magnesium carbonate.—One-ton lots: LIGHT, 129s. per cwt.; HEAVY, 148s. per cwt.

Magnesium chloride.—Crystals in 50kilo kegs, 5s. 6d. per kilo.

Magnesium hydroxide.—B.P.C., 1-cwt. lots, 3s. 11d. per lb.; 1-ton, 3s. 6d. per lb. Magnesium oxide, B.P.—Light, 1-cwt. lots, 3s. 10d. per lb., 1-ton, 3s. 7d.; heavy, 5s. 10d. per lb.

Magnesium Peroxide.—B.P.C. (15 per cent.), 3s. 11d. per lb. for 1-cwt. lots.

Magnesium phosphates: Dihydrogen, kilo lots, in kegs, 8s. 9d. per kilo; 50-kilo lots, in kegs, 8s. 9d. TRIBASIC, in sacks, 9s. 8d. kilo.

MAGNESIUM SULPHATE. — B.P. in minimum 1-ton lots from £25 5s. to £35 per ton. Exsiccated, £58 per ton.

MAGNESIUM TRISILICATE, — (Per Under 5-cwt. lots, 4s. 1d.; 1-ton, 3s. 4d.

METHYL PHENOBARBITONE. — B.P.C., 78s. per kilo for less than 25-kilo lots.

METHYL TESTOSTERONE.—Per kilo, £95.

NARCOTINE. — ALKALOID and HYDRO-CHLORIDE, 11s. 4d. per oz. (399s, 6d. kilo) for under 35-oz. lots. Containers below 1-kilo charged Is. 6d. per container.

PENTOBARBITONE.—25-kilo lots and over are 107s. 6d. per kilo.

PETHIDINE HYDROCHLORIDE. — Subject to D.D.A Regulations, 5-kilo lots, 300s. per kilo.

Phenobarbitone. — Spot rates 50-kilo lots, 47s, 6d, per kilo. Sodium salt, 54s. 6d.

PHOLCODINE. -- 8-oz. lots, 95s. 9d. per oz. (3,377s. per kilo).

Phthalyl sulphathiazole, — Five-kilo lots, 31s, per kilo.

QUINALBARBITONE.—Sodium salt is 110s. per kilo for 25-kilos and over.

Short. SULPHATE, Ouinidine. 2,063s, 11d. per 100-oz, for lots of 500-oz, and over; less than 500-oz, are 2,181s. 8d. per 100-oz. ALKALOID, crystals, 2,701s. 4d. and 2,855s. 1d.; precipitated, 2,733s. 1d. and 2,889s.

QUININE.—Short, 1,000-oz, lots per oz.: SULPHATE, B.P., 1963, 11s.; BISULPHATE, 11s.  $2\frac{1}{2}d$ .; DIHYDROCHLORIDE, 15s. 4d.; HYDROCHLORIDE, 14s. 6d.

SAL PRUNELLA. — Balls, 3s. 9d. per lb. in 1-cwt, lots.

STRYCHNINE. — 100-oz. lots; ALKALOID, 12s. per oz. SULPHATE and HYDROCHLOR-IDE, 10s. 6d.

SUCCINYL SULPHATHIAZOLE. - Five-kilo lots, 32s. 6d. per kilo.

SULPHACETAMIDE. 50-kilo lots, 54s. per kilo; sodium, 55s.

SULPHADIAZINE.—Five-kilo lots, 65s. per kilo; 50-kilo lots, 60s.

SULPHADIMIDINE. — 50-kilo lots are 60s. per kilo.

SULPHAGUANIDINE.-100-kilo lots, about 19s. 6d. per kilo.

lots, 100s.; 50-kilos, 95s.

SULPHANILAMIDE.—50-kilo lots, 13s. 1d. per kilo.

SULPHAPYRIDINE. — Five-kilo lots, 120s. per kilo.

THEOPHYLLINE.—12½ kilo lots; ALKALOID ANHYDROUS, 32s. 3d. per kilo and B.P., 33s. 3d.; AMINOPHYLLINE, 29s. per kilo, 33s. 3d.; AMINOPHYLL  $12\frac{1}{2}$  kilos, 31s. per kilo.

UREA.—Pharmaceutical grade, £59 15s. per ton in 1-cwt, bags non-returnable; technical quality, £41 5s. per ton (4-ton

#### Crude Drugs

ACONITE. — Spot, Spanish, napellu 2s, 4d. per lb.; shipment, 2s, 3d., c.i.f. napellus,

AGAR. — Kobé No. 1, 13s. per lb. in bond; shipment, 12s. 6d., c.i.f. Spanish scarce on the spot at 15s. 6d., duty paid. nominal.

ALOES. — Primes. 270s. per cwt. spot, Shipment, 265s., c.i.f. Curação, spot, 265s.; 260s., c.i.f.

ANISE. — Chinese, STAR, 152s. 6d. per cwt. spot, duty paid; f.a.q. for shipment, 115s., c.i.f.

Annatro. - Madras, f.a.q. seed, spot, 300s. per cwt.

BALSAMS.—Per lb.: CANADA: 24s., spot. COPAIBA: B.P.C. 11s. 6d. PERU: 23s. 6d., afloat; shipment, 22s., c.i.f. Tolu: B.P., from 10s. 6d. to 27s. 6d.

BAY.—LEAVES, 1s. 9d. per 1b., spot.

Belladonna.—Leaves, 6s. per lb., nominal, spot. Root, 1s. 8d. per lb., spot; shipment, 1s. 7d., c.i.f.

BENZOIN.—Sumatra block spot from £20 to £40 per cwt. as to quality

Buchu.—Spot, 4s. 9d. per lb.

CALAMUS. - ROOT, 100s. per cwt., spot, 87s. 6d., c.i.f.

CAMPHOR. — B.P. powder for shipment, 5s. 3d. per 1b., c.i.f.; spot, 6s. 6d., duty paid.

CARDAMOMS. — A'eppy greens, s 19s. per lb.; shipment, 21s. 6d., c.i.f.

CASCARA. — Spot, 225s. per cwt.; shipment, 218s., c.i.f.

CASSIA.—Fistula, 105s. per cwt. spot; gnea, whole shipment, 202s. 6d., c.i.f.; selected broken, 192s. 6d., c.i.f.

CHAMOMILE.—Belgian flowers scarce at from 20s. per 1b., upwards spot; German type, 7s. 6d.

CHERRY BARK .- Thin natural, 2s. 2d. per lb., shipment, 2s., c.i.f.

CHILLIES. — Zanzibar, spot, 320s. per cwt.; shipment, 310s., nominal.

DIGITALIS.-Purpurea leaves, 2s. 6d. per

ELEMI. — Spot. 1s. 8d. per 1b.; shipment: new crop, 1s. 5d., c.i.f.

Ergot. — Portuguese, spot, 9s. 9d. per lb.; shipment, 9s. 6d., c.i.f.

GENTIAN. — Root, 190s. per cwt. spot; shipment, 185s., c.i.f.

GINGER. — (Per cwt.) Nigerian, July-August shipment (c.i.f.), split, 85s.; peeled, 210s. African, spot, 230s. per cwt.; shipment, July-August, 220s., c.i.f. Jamaican No. 3, spot, 325s., shipment, 280s., c.i.f. Cochin, spot, 300s., July-August shipment, 312s. 6d., c.i.f.

Gum acacia.—Kordofan cleaned sorts, 162s. 6d. per cwt., spot; shipment, 148s., c.i.f.

HONEY. — (Per cwt.), Australian light amber, spot, 120s. to 125s.; and medium amber, 110s. to 115s.; Argentine, 110s. to 115s.; Canadian, 175s. to 180s.; Mexican 115s.; Canadian, 1 spot, 115s. to 120s.

IPECACUANHA. — High testing material short on spot. Matto Grosso for shipment, 54s. 6d. per lb.; c.i.f. and landing, 55s. Costa Rican, 74s, spot nominal; shipment, 71s. 6d., c.i.f. Colombian, 54s. 6d., c.i.f. for shipment.

Karaya.—No. 1 f.a.q. gum, spot, 415s.; No. 2, 300s. per cwt.

KOLA NUTS.—African, spot, 6½d. per lb., nominal; shipment, 5½d., c.i.f.

LANOLIN. — ANHYDROUS B.P. is from 2s. 6d. to 2s. 10d. per lb. in 1 ton lots delivered free drums. Commercial grades from 1s. 91d.

LEMON PEEL.—Spot, 1s. 9d. per lb.; partially extracted, 1s.

LINSEED. — Whole, 72s. 6d. per cwt.; crushed, 110s.

LIQUORICE, — Natural root: Russian, 67s. 6d. per cwt.; Anatolian, 57s. 6d.; Anatolian decorticated, 170s. Block juice: Anatolian, 210s. to 220s. per cwt.; Italian stick from 395s. to 460s. per cwt.

LOBELIA.-Dutch on the spot offered at 6s. 3d. per lb.

MACE.—Whole pale blade, 14s. per lb. for forward delivery.

MENTHOL.—(Per lb.). Chinese for shipment, 29s., c.i.f.; spot, 30s., in bond. Brazilian for shipment, 30s., c.i.f.; spot, 33s., duty paid and 30s. 6d. in bond.

- Spot nominally £265 per flask of 76-lb. ex warehouse.

NUTMEGS.—(Per lb.), West Indian, spot, 80's, 9s.; 110's, 7s. 8d.; sound unassorted, 7s.; defectives, 5s. 6d. East Indian for shipment, 80's, 8s. 6½d.; 110's, 6s. 11d., b.w.p. 4s.  $4\frac{1}{2}$ d., c.i.f.

Nux vomica—Cochin, 95s. per cwt. on the spot; shipment, 85s., c.i.f.

Orange Peel. — Spot: Sweet ribbon, 1s. 8d. per 1b., bitter quarters: West Indian, 10½d.; Spanish, 1s. 9d.

PEPPER. — White Sarawak spot, 3s. 1d. to 3s. 3d. per lb.; shipment, 3s. 1d., c.i.f. Black Sarawak, 3s. spot; shipment, 2s. 7½d., c.i.f. Black Ma'abar, spot, 3s. 5d. per lb.; shipment, 375s. per cwt., c.i.f.

PODOPHYLLUM.—Spot per cwt.: Emodi, 235s.; 220s., c.i.f.

QUILLAIA.—For shipment, 135s. per cwt. c.i.f.; spot, 125s.

RHUBARB.—Manufacturing grades offered at from 5s. to 8s. 6d. per 1b., other grades at 12s. 6d. and 15s. 6d.

SAFFRON.—Mancha superior spot, 625s. per lb.; Rio, 600s.

SARSAPARILLA. -– Jamaican native red spot, 3s. 6d. per lb.; shipment, 3s., c.i.f.

SEEDS. — (Per cwt.). ANISE.--Turkish, 200s., duty paid; Spanish, 255s., duty paid. Caraway.—Dutch, 137s., 6d., duty paid. Celery.—Indian, 175s., spot; July-August shipment, 150s., c.i.f., CORIANDER, August shipment, 150s., c.i.f. CORIANDER. — Moroccan, 57s., duty paid; shipment now quoted at 44s, 6d., c.i.f. Rumanian whole seed, 52s, 6d., c.i.f. CUMIN.—Indian, 300s.; Moroccan, 350s., duty paid; shipment Indian, 255s., c.i.f.; Moroccan, dearer at 247s, 6d., c.i.f. DILL.—Indian, 120s., spot; shipment, 90s., c.i.f. FENNEL.—Chinese, 130s., duty paid; shipment Chinese, 112s. 6d., c.i.f.; Indian, 135s., c.i.f. FENUGREEK.—Moroccan, 45s., duty paid; shipment, 38s., c.i.f. MUSTARD.—English, 65s. to 85s., according to quality. 65s. to 85s., according to quality.

SENEGA.—Spot, 19s. per lb.; new crop, July-August shipment, 18s., c.i.f.

SENNA. — (Per lb.). Tinnevelly LEAVES spot: Prime No. 1, 2s.; No. 3, fa.q., 1s. ld. Shipment: No. 3, 1s., c.i.f. Pods: Tinnevelly hand-picked, ls. 8d. to 2s. as to qua'ity; spot, manufacturing, ls. ld.; shipment, 1ld., c.i.f. Alexandria pods: Hand-picked from 7s. to 8s.; manufacturing, forward, 2s, 6d., c.i.f.

SOUILL. -- Italian, spot, 180s, per cwt.; shipment, 165s., c.i.f.

STYRAX.—Spot, 13s. 6d. per lb.; shipment, 13s. 3d., c.i.f.

TURMERIC. - Madras finger on spot is 127s. 6d. per cwt.; July-August shipment quoted at 100s., c.i.f.

Vanillin. — (Per lb.). 5-cwt. lots, 21s. 6d.; 1-cwt., 21s. 9d.; 56-lb., 22s.; small quantities, 22s. 6d. All plus temporary import charge.

Waxes. — (Per cwt.). Bees' — Dar-es-Salaam, 445s.; shipment, 415s. Sudanese, spot, 400s., in bond; shipment, 385s., c.i.f. Candelllla, spot, 465s.; forward, 460s. landed, Carnauba, fatty grey, spot, 320s.; shipment, 295s., c.i.f.; prime yellow, spot, 660s.; shipment, 595s., c.i.f.

WITCH HAZEL LEAVES.—Spot quotations are 2s. 2d. per lb.; shipment, 2s. 1d., c.i.f.

#### **Essential and Expressed Oils**

ALMOND. — Imported sweet oil is 7s. per lb. spot.

AMBER.—Rectified on the spot, 2s. per

ANISE. — Chinese, 9s. 6d., spot, shipment, 9s. 8d., c.i.f.

BAY.—West Indian, 35s. per lb. on the

BERGAMOT.—Spot quotations for best oil are from 100s. per lb.

BIRCH TAR.—Rectified, 3s. per 1b.

Bois de Rose. - Brazilian spot, from 16s. 6d.; shipment, 16s. 3d., c.i.f.

Buchu. — Spot, from 280s. to 360s. per

CADE. - Spanish from 2s. per lb. for drum lots.

CAJUPUT.—Spot from 11s. per 1b.

CAMPHOR, WHITE, - Chinese for shipment, 4s. 6d., c.i.f., per kilo; spot, 2s. 9d. lb., duty paid.

Cananga.—Spot from 45s. per lb.

CARDAMOM.—English distilled, 450s. per

Castor.—Home produced B.P. oil, spot, £127 per ton naked ex mill (2-ton lots).

CELERY SEED. — Quotations are from

120s. per lb. for Indian.

CITRONELLA. — Ceylon, spot, 5s, 6d.; shipment, 5s. 1d. per lb., c.i.f.; Formosan and Chinese, 4s. 6d., in bond; shipment, 4s. 5d., c.i.f.

CLOVE.—Madagascar leaf for shipment, 5s. 8d., c.i.f.; spot, 6s. 1½d., in bond. Rectified, 10s. Distilled bud-oi!, ENGLISH B.P., 26s. per lb. for 1-cwt. lots.

COD-LIVER. — B.P. in 45 gall, drum is 11s. 6d. per gall, including 30s. deposit on drum. Veterinary is from 9s. 6d. per gall, 25-stone lots. Delivered terms.

DILL. — Imported is from 34s, to 39s. per lb., spot.

GRAPEFRUIT.—Spot offers from 7s. 6d. per lb.

GERANIUM. — Bourbon, 87s. 6d. to

92s. 6d., spot. JUNIPER. — B.P.C. is 32s. 6d. per 1b. JUNIPER WOOD, from 6s.

LAVANDIN. — From 25s, to 30s, per lb. as to quality.

LAVENDER, - French from 46s, to 57s. 6d. per lb. as to quality.

LEMON.—Sicilian from 20s. to 28s.

LEMONGRASS. — Spot, 8s. 4½d. per lb.; shipment, 8s. 2d., c.i.f. LIME. — West Indian distilled, 65s. per

lb. on the spot.

NUTMEG.—East Indian B.P. oil is about 40s. per lb. English distilled, 70s. ORANGE.—Floridan sweet oil, 4s. 6d. to

5s. 9d. per 1b.; Spanish, 16s.

Palmarosa. — Shipment, 50s. per lb., c.i.f.; spot, 54s.

PETITGRAIN. - Paraguay for shipment, 14s. 9d., c.i.f.; spot, 15s. 6d. per lb.

PEPPERMINT, — Arvensis: Chinese for shipment, 11s., c.i.f., spot, 11s. Brazilian for shipment, 12s., c.i.f.; spot, 11s. 9d. Piperita: Italian, 48s. to 60s., spot, Americal Properties of the control of can from 34s, per lb. as to make.

Sandalwood. — Mysore, spot, 108s. per lb. East Indian for shipment, 112s.,

THYME.—From 20s. to 25s. 6d. per lb. as to test.

#### UNITED STATES REPORT

NEW YORK, JULY 6: The market for CRUDE DRUGS was described as seasonally quiet with the price structure unchanged and inventories considered to be on the low side. ESSENTIAL OILS were largely steady as demand continued unabated.

#### PATENTS

#### COMPLETE SPECIFICATIONS ACCEPTED

From the "Olficial Journal (Patents)," June 10

Cyclohexane derivatives, Rhone-Poulenc, S.A. 999,221,

Process for treating hair, Dow Corning Corporation. 999.222.

Quinoline derivatives, Rhone-Poulenc, 999 237

Esterification of isophthalic acid with alkylene oxides. Allied Chemical Corporation. 999,242. Method of making photographic images multilayer photographic material and for performing the

same, Lumoprint Zindler, K.G. 999 247. Manufacture of spirilloxanthin, F. Hoffmann-La Roche & Co., A.G. 999.251.

Ester and a process for the preparation, F. Hoffmann-La Roche & Co., A.G. 999,252.

Unsaturated esters and a process for the preparation thereof. F. Hoffmann-La Roche & Co., A.G. 999,253.

Unsaturated alcohol and a process for the preparation thereof, F. Hoffmann-La Roche & Co., A.G. 999,254.

Unsaturated alcohols and a process for the preparation thereof, F. Hoffmann-La Roche & Co., A.G. 999,255.

Sulphonation of fatty acids and their esters. Henkel & Cie, G.m.b.H. 999,300.

Substituted thioanisole, Sandoz Patents, Ltd. 999.363.

British patent specifications relating to the above will be obtainable (price 4s, 6d, each) from the Patent Office, 23 Southampton Buildings, Chancery Lanc, London, W.C.2, from July 21.

From the "Official Journal (Patents)," June 16

Substituted tetrazaindene compounds and their uses in photography, Kodak, Ltd. 999,381-82. 2-Benzyloxy-malonic acid derivatives, Sandoz Patents, Ltd. 999,388.

Ethers of methyl 18-epireserpate and salts thereof and process for their manufacture. CIBA, Ltd. 999.391.

Ethers of the yohimbane series and process for their manufacture. CIBA, Ltd. 999,392-93. Animal feed and drink preparations, CIBA, Ltd.

999 394 Compounds of the yohimbane series and process

for their manufacture, CIBA, Ltd. 999,395, Process for the manufacture of ethers of the

yohimbane series. CIBA. Ltd. 999,396. Esters of the yohimbane series and process for their manufacture, CIBA, Ltd. 999,397-98-99,

Phosphorus-containing esters, Farbenfabriken Bayer, A.G. 999,402.

Substituted 2-hydroxy-benzo [A] quinolizines and a process for the manufacture thereof. Hoffmann-La Roche & Co., A.G. 999,404.

E.ectrophotographic materials, Eastman Kodak Co. 999,405.

Production of 1,4,5-trisubstituted pyridazones-(6), Badische Anilin & Soda-Fabrik, A.G. 999,448. Process for making 2,6-dia:hylphenols. General Electric Co. 999,449.

Production of alcohols, Imperial Chemical Indus-

tries, Ltd. 999,461.

Veterinary preparations containing an aromatic diisothiocyanate. Farbwerke Hoechst, A.G. 999 502

Piston injection syringe. Injecta Steinach Veb. 999,527.

Photographic flashlight apparatus, H. Böhme, 999.535.

Process for the manufacture of an ester carboxylic acid with an unsaturated alcohol, Farbwerke Hoechst, A.G. 999,551.

Polyoxyethylene derivatives of sucroglycerides. Ledoga, S.p.A. 999,554.

Process for the manufacture of compounds containing an ethionylamino group. Farbwerke Hoechst, A.G. 999,556,

Trihydroxamic acids, CIBA, Ltd. 999,582.

Pharmaceutical preparations containing trihydroxainic acids. CIBA, Ltd. 999,583.

Bipyridylium compounds and herbicidal compositions containing them. Imperial Chemical Industries, Ltd. 999,585.

Production of halogen substituted-methyl compounds. Merck & Co., Inc. 999,586.

Carboxylic acids alpha-substituted by at least one cyclic radical and their processes of pre-paration, Lipha, Lyonnaise Industrielle Pharmaceutique 999,589.

α-Substituted carboxylic acid derivatives and their production. Lipha, Lyonnaise Industrielle Pharmaceutique, 999,590.

Process for the preparation of basically substituted phenyl-acetonitriles. Knoll A.G. Chemische Fabriken 999,612.

Methods of obtaining aluminium-ammonium-alum. Instytut Chemii Ogôlnej, 999,644.

Hypoglycemic sulphonyl urea medicaments, Upjohn Co. 999,710.

Process for the manufacture of mono-(1-2-diaryl-

aminoethane)-derivatives of dicarbonyl compounds. Schering, A.G. 999,729.

Stabilisation of ester-group containing compounds. Farbenfabriken Bayer, A.G. 999,730.

Methods and compositions for regulating plant growth. Union Carbide Corporation, 999,734.

Nematocidal compositions and compounds for use therein. J. R. Geigy, A.G. 999,737.

Therapeutic compositions containing estrones. American Cyanamid Co. 999,738.

Analgesic compositions, Takeda Chemical Industries, Ltd. 999,739.

Benzothiadiazoles, their preparation and use. J. R. Geigy, A.G. 999,740.

Peuicillin. Distillers Co., Ltd. 999,791.

Production of antibiotic containing a cyclonentanophenanthrene nucleus and salts thereof, K. Abi'dgaard (trading as Lövens Kemiske Fabrik Ved A. Kongsted), 999,794.

Antifungal compositions. Boots Pure Drug Co., Ltd. 999.802...

1,2-Dihydroquinoline derivatives, Monsanto Chemicals, Ltd. 999,806.

Hemostatic dressings and wound coverings, Johnson & Johnson, 999,807.

Polyisobutylene compo Corporation, 999,831. composition. Johns Manville

Aerosol propellent formulations, Imperial Chemical Industries, Ltd. 999,837.

Continuous separation of an isomer mixture containing ortho-, meta- and paradichloro-benzene and trichloro-benzene. Farbenfabriken Bayer, A.G. 999,845.

Toothpastes. International Chemical Co., Ltd. 999.857.

Substituted dimethyl ureas, Fisons Pest Control, Ltd. 999,862. Dyes for photographic filter layers, Kodak, Ltd.

999,874. Pesticides. Murphy Chemical Co., Ltd. 999,876. Dibenzocycloheptane derivatives, Sandoz Patents, Ltd 999.879.

Process for the purification of monocarboxylic acids. Shell Internationale Research Maatschappij N.V. 999,881-82.

Dia.kylaminoalkyl esters of substituted phenoxyphenyl alkanoic acids, Smith Kline & French Laboratorics, 999,892.

Fungicidal compounds and compositions, Boots Pure Drug Co. 999,893.

Organic compounds of phosphorus containing nitrogen and sulphur, Farbenfabriken Bayer, A.G. 999,897.

Preparation of esters, A. Boake, Roberts & Co., Ltd. 999,947.

Prolonged acting pharmaceutical preparations, Koninklijke Pharmaceutische Fabrieken Brocades-Stheeman & Pharmacia N.V. 999,959.
Pesticidal compositions containing rotenone and

piperonyl butoxide, Cooper, McDougall & Robertson, Ltd. 999,960. Process for the preparation of 1-oximino-2-chlorocyclo-dodecadi-5,9-ene, Soc. Organico, S.A.

999,997. Process for the manufacture of unsaturated aldehyd.s. F. Hoffmann-La Roche & Co. 999,999. British patent specifications relating to the above will be obtainable (price 4s. 6d. cach) from the Patent Office, 23 Southampton Buildings, Chancery Lane, London, W.C.2, from July 28.

From the "Official Journal (Patents)," June 23 Photographic emulsious, Kodak, Ltd. 1,000,001.

Swabs, Johnson & Johnson, 1,000,022. Prescreened photographic materia's Kodak Co. 1,000,036,

Photographic products. International Polaroid Corporation, 1,000,060.

Rearrangement of arylsilanes, Dow Corning Corporation, 1,000,072.

Diagnostic device for the detection and location of sites of internal anatomical abnormalities. Diagnosto Associates, Ltd. 1,000,078.

Method of and apparatus for packaging roll film.

Eastman Kodak Co. 1,000,124.

Metal salts of ethylenobisdithiocarbamic acid. Rohm & Haas Co. 1,000,137.

Photographic light transmitting element, national Polaroid Corporation, 1,000,144.

Photographic processing apparatus, International Polaroid Corporation, 1,000,145.

Feeding bottles. H. Okuyama. 1,000,182.

lutinodibenzyl derivatives and processes for their production, J. R. Geigy, A.G. 1,000,191-192.
Thiocyanophenyl derivatives and pest control compositions thereof, J. R. Geigy, A.G. 1 000 199

N-Substituted-\u03b3-hydrox aralkylamines process for making them and therapeutic compositions containing them. Neisler Laboratories, Inc.

N-(3-Trifluoromethylphenyl)-anthranitates. Parke. Davis & Co. 1,000,208.

Bishydroxyphenyl thiazole thiazoles and their use as stabilisers. J. R. Geigy, A.G. 1,000.209.

Dialkyl hydroxyphenyl compounds and their production. J. R. Geigy, A.G. 1,000,217. Collapsible tube squeezer. C. B.

1.000.241.

Disposable device for sterilising solutions by filtration, R, C, Arisafi, 1,000,248.
Photographic processes and fixing compositions.

Ilford, Ltd. 1,000,314. Photographic apparatus, International Polaroid

Corporation, 1,000,332.

Developing apparatus, Agfa, A.G. 1,000,397. British patent specifications relating to the above will be obtainable (price 4s, 6d, each) from the Patent Office, 23 Southampton Buildings, Chancery Lane, London, W.C.2, from August 4.

#### TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," June 23

For deodorants and disinfectants (5)

CORGENE, 870,996, COROSAN, 870,998, by Stephenson Clarke, Ltd., London, E.C.3. For pharmaceutical preparations containing iron

(5) FERROGRAD, 872,926, by Abbott Laboratories, North Chicago, Lake, Illinois, U.S.A. pharmaceutical preparations and substances for human and veterinary use, all consisting of or containing sulphonamides (5)

NUVAMIDE, 872,988, by May & Baker, Ltd., Dagenham, Essex.

veterinary preparations for cattle (5)

MAMMIJECT, .873,222, by Streetly Pharmacy, Ltd., Sutton Coldfield, Warwicks.

For pharmaceutical and medicinal preparations

and substances, all containing morphine (5) VALOMORPH, 873,306, by Wellcome Found-

ation, Ltd., London, N.W.1.

For air-freshening preparations and preparations for ki'ling flies (5) VERDICT, 871,148, by Northern Aerosols & Sachet Co., Ltd., Manchester, 12.

For all goods, but not including medicated confectionery (5)

Device with letter and words F HOUSE OF FULLER, B873,613, by Fuller Brush Co., East Hartford, Connecticut, U.S.A.

For food for infants (5)
CHEMOTHEUTIC KIDDIFOOD, 874,039, by British Chemotheutic Products, Ltd., Bradford, Yorks.

For pharmaceutical preparations and substances

MED1KEMA, 874,599, by Medikema, A.B., Tyringe, Swcden.

For pharmaceutical and veterinary preparations and substances (5)

BOOSTERVAC, 875,140, by Stevenson, Turner & Boyce, Ltd., Reading, Berks.

For pharmaceutical preparations and substances for human and veterinary use (5)

SYNCHROCEPT, 875,312, by Syntex Corporation, Panama.

For antibiotics, antibiotic preparations and preparations containing antibiotics, all for veterinary purposes (5)

FARMOMYCIN, 875,686, by Crookes Laboratories, Ltd., London, N.W.10. For laboratory and scientific instruments and

apparatus (9) Devices, 875,809, 875,811, by Wellcome Found-

ation, Ltd., London, N.W.1.

#### WILLS

MR, W. C. COSTELLO, M.P.S., 3 Henley Gardens, Chadwell Heath, Essex, left £4,630 (£2,118

MR. G. DAVIES, M.P.S., Arfryn, Solva, Haverfordwest, Pembs, left £9,363 (£8,118 net).

MR, J. B. GILLIES, M.P.S., 20 West Town

Park, Brislington, Bristol, 4, left £5,310 (£5,260

Mr. J. Griffith, M.P.S., Tegfryn, Bryn Avenue, Colwyn Bay, Denbighshire, left £18,986 (£18,873 net).

MR. A. H. HARDING, M.P.S., 66 Harrow Drive, Hornchureh, Essex, left £31,303 (£30,067 net). Mr. J. T. HATTEN, M.P.S., 104 Globe Street, Penarth, Glam, left £5,034 (£4,909 net).

Mr. S. Hill, M.P.S., 68 Poulton Street, Kirkham, Lanes, left £35,803 (£34,022 nct).

MR, R, L, HOPKINS, 46 Romilly Park, Barry, Glam, who qualified as a chemist and druggist in 1915, left £33,755 (£33,679 net).

Mr. R. Hudson, M.P.S., 76 High Street, Wiekham Market, Suffolk, left £12,073 (£10,638 net). MR. B. A. JONES, M.P.S., 34 Covert Crescent, Radeliffe-on-Trent, Nottingham, left £1,199 (£1,144

MR. W. H. JONES, M.P.S., Windyridge, Bryn Avenue, Old Colwyn, Denbighshire, left £6,685 (£6,623 net).

MR. F. LIGHTFOOT, M.P.S., 6 Tunnel End, Preston Brook, Warrington, Lancs, left £2,392 (£2,345 net).

MR. L. MATTHEWS, M.P.S., Combe Grove otel, Monkton Combe, Bath, Somerset, left hotel £14,269 (£1,729 nct).

MR. W. MOFFATT, M.P.S., 14 Westmorland Low Fell, Gateshead, eo. Durham, left £9,492 (£9,452 nct).

MR. D. L. MURPHY, M.P.S., 18 Southwest venue, Bollington, Macelesfield, Ches, left Avenue. £1,962 (£1,798 net).

Mr. D. Norman, M.P.S., 197 Liverpool Road, Crosby, Liverpool, 23, left £22,969 (£22,850 net). MR, T. S. NOWELL, M.P.S., Castle Bank, Straits Lane, Read, Burnley, Lanes, left £5,610 (£5.515 net).

MR. R. W. ORFORD, M.P.S., 25A Clarendon

Square, Learnington Spa, Warwickshire,
MR, L. A. PARKER, M.P.S., 7 Woodland Grove, Warsop, Mansfield, Notts, left £24,386 (£23,271 net).

MR. A. J. PARKIN, M.P.S., 135 Nottingham

Road, Nuthall, Nottingham, left £9,454 (£8,471

MR. H. PROCTER, M.P.S., 36 Scalby Mills Road, Scarborough, Yorks, left £3,565 (£3,444 net).

MR, V. REED, F.P.S., 1 Manor Park, London, S.E.13, left £51,441 (£51,382 net). Part of the residue of his estate (on trust for his wife during widowhood) is left to the Pharmaceutical Society Convalsecent Home Fund and part to the Pharmaceutical Society of Great Britain, found a scholarship for qualifying for the Pharmaceutical Chemist degree to be known as The Victor Reed Scholarship, to which the Pharmaceutical Society may add extra funds to increase the benefits of same.'

MR. H. P. REES, M.P.S., 73 Three Butt Lane, Liverpool, left £2.607 (£2,526 net),

MR. L. ROBERTS, M.P.S., 59 Horseshoe Road, Pangbourne, Berks, left £51,825 (£51,566 net). MR. A. V. SMART, M.P.S., 224 Tapton View Road, Chesterfield, Derbyshire, left £10,248

(£9,596 net).

MR. F. L. SMITH, M.P.S., Hilltops, Lane, Hereford, left £19,019 (£18,542 net). Hilltops, Venns

MR, N. V. SOWDEN, M.P.S., 73 Bowling Hall Road, Bradford, Yorks, left £3,402 (£3,259 net). MR. A. H. SPIERS, M.P.S., 571 Welford Road, Leicester, left £18,431 (£18,368 net).

MR. W. SUMNER, F.P.S., 43 Albany Road Pontycymmer, Glam, left £15,805 (£14,251 net). MR. J. THOMPSON, M.P.S., 5 Pierston Avenue, Blackpool, Lancs, left £10,691 (£10,552 nct).
MR. D. A. TREE, M.P.S., 25 High Street, Aldershot, Hants, left £2,936 (£2,119 net).

MR. A. B. TUCKER, 1 Sidmouth Road, Honiton, Devon, who qualified as a chemist and druggist in 1906 and as a pharmaceutical chemist in 1907, left £4,508 (£4,428 net).

MR, J. WILKINSON, M.P.S., 17 Street, Wilsden, Bradford, Yorks, left £10,716 (£10,632 net).

#### PRINT AND PUBLICITY



COMPACT: An ingenious space-saving display dispenser issued by J. & E. Atkinson, Ltd., Bessenier Road, Welwyn Garden City, Herts. It holds their complete Skin Deep range of products and the name of each product is clearly visible. Approximate measurements are 18 x 15 x 8 ins. A space has been contrived for a "help-yourself" supply of their instructive booklet called "Basis for Beauty."

#### PRESS ADVERTISING

DAE HEALTH LABORATORIES, LTD., 17 Berners Street, London, W.1: Veet odourless depilatory. In women's magazines and national Press, GORDON-MOORE, 1.10., St. Swithin's, Norwich: Gordon-Moore's cosmetic tooth-paste, In newspapers and magazines (and on commercial

JACKEL & Co., LTD., Shuna Place, Maryhill, Glasgow, N.W.; Living hair conditioner, In Everywoman, Nova, Reader's Digest, Woman. Woman and Home, Woman's Journal and Woman's Own Protein shampoo. In Every-woman, She, Nova, Woman and Home and Woman's Journal.

#### Catalogues and Lists

LTD., Hempstalls Lane, Newcastle, Рноторіа, Staffs: 1965 catalogue (pp. 96).



" FAMILY " DISPLAY: This permanent T.C.P. display-piece is now available from Universal Laboratories, Ltd., Sandwich, Kent, holds three 8-oz. bottles, eight 2-oz. bottles, five bars of medicated toilet soap, five tubes of ointment and four tubes of tooth-pastc. The display card is interchangeable so that scasonal messages can be

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#### **COMING EVENTS**

Tuesday, July 13

LIVERPOOL CHEMISTS' ASSOCIATION AND BRANCH, PHARMACEUTICAL SOCIETY, College of Technology, Byrom Street, from 9.30 a.m. to 8 p.m. Exhibition "Medicines with Care," Until July 16. On July 17, 9,30 a.m. to 5 p.m.

#### Wednesday, July 14

BOURNEMOUTH BRANCH, PHARMACEUTICAL SOCIETY, Post-graduate medical centre, Boscombe, Bournemouth, at 1 p.m. "Management of the Deaf Patient."



#### What doctors are reading about developments in drugs and treatments

ADMINISTRATION of one dose of killed, aluminium-phosphate-adsorbed, measles vaccine three or more weeks before giving a live attenuated vaccine has been found by a Surrey general practitioner to enhance the antibody response to attenuated vaccine and to abolish adverse clinical reactions in children over three years of age. Fortytwo people, including two adults, received the attenuated vaccine at intervals ranging from three weeks to eighteen months after having received either one or three doses of the killed vaccine. The three-week interval gave no less clinical benefit than did a longer interval. Antibody titres were highest in those who had received three doses of killed vaccine about a year before the live vaccine. Clinical and serological reactions to live vaccines were found to vary with age, being maximal at three to six years. It is suggested that the smaller response in older children may have been due to using the same dose with varying body weights. (B.M.J., July 3, p. 13.)

THERE is an immediate need to modify the pertussis vaccines used in the United Kingdom so that they contain strains of Bordella pertussis in which all three of the major antigens of that organism are represented, ac-

cording to Dr. N. W. Preston (department of bacteriology, University of Manchester). In an examination of eleven pertussis vaccines and vaccine strains in current use he found that strains of *B. pertussis* containing antigens 1 and 2 (serotype 1, 2) had been virtually eliminated and that the vaccines gave adequate protection against strains of type 1, 2, 3. However, strains of type 1, 3, which were found in both vaccinated and unvaccinated persons and constituted 85 per cent, of the strains examined, were only agglutinated by antibody 1 although readily agglutinated by antibody 3. In only one of the eleven vaccine

strains examined was antigen 3 found to be present (B.M.J., July 3, p. 11.)

RESULTS of a double-blind placebo study confirming the value of imipramine in Parkinsonism are reported from the Parkinson Research Unit, Kavolinska Sjukhuset, Stockholm, Sweden. Best clinical results were seen in patients under fifty. Side-effects were few and readily controlled in most patients by reducing the dose for three to five days. Once the drug began to lose effect after having established an optimum response further increase in dosage produced no further worthwhile response. (B.M.J., July 3, p. 33.)

SEVANA "soapless soap" (an anionic synthetic detergent) may be tolerated in soap intolerant skin conditions, concludes Dr. J. S. Pegum (The London Hospital and Queen Elizabeth Hospital for Children) after an investigation of its use in fifty-seven patients, ranging from infants to adults, with various dermatoses. The substance was also used as a shampoo in thirty-five patients and proved satisfactory. Three of the fifty-seven cases showed intolerance. (Practitioner, July, p. 78.)

#### CONTEMPORARY **THEMES**

Subjects of contributions in current medical and technical periodicals.

ANTI-IRRITANTS. Use of, in cosmetic formulating. J. Soc. Cos. Chem., May 27.

Pyridoxine-3,4-diacylates and their use in cosmetics. J. Soc. Cos. Chem., May 27.

POLYETHYLENE-MINERAL OIL GELS, A new procedure for the preparation of. J. Soc. Cos. Chem., May 27,

PHENOTHIAZINE DERIVATIVES. Sudden death and.

J. Amer. med. Ass., June 21.
HORMONES at Work, New Scientist, July 1.
ANTHRAX AND ANTIBIOTICS, Vet. Rec., July 3.

TETRACYCLINES. Bacteriostatic actions of some. J. Pharm. Pharmacol., July. PHARMACOLOGY OF HALOUINOL Observations on

the, J. Pharm. Pharmacol., July, LACTOSE AND MAGNESIA. Some physical proper-

ties of J. Pharm, Pharmacol., July, CLOXACILI IN. Clinical studies with. J. Amer. med.

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CATHARTICS and the sodium pump, Nature, June 26.

#### OMMERCIAL TELEVISION

The information given in the table is of number of appearances and total screen time in seconds. Thus 7/105 means that the advertiser's announcement will, during the week covered, be screened seven times and for a total of 105 seconds.

Period July 18-24			-	94	k West		ast			r.d		an	_	l Is.
PRODUCT	London	Midland	North	Scotland	Wales a	South	North-east	Anglia	Ulster	Westward	Border	Grampian	Eireann	Channel
4711	1/15 7/141 3/90 — 7/49 1/15 — 1/30 — 4/51 3/60 — 5/81 — 2/60 4/120 1/30	1/15 5/104 6/144 — 7/49 — 4/28 — 3/67 3/45 — 1/30 2/60 — 3/45 — 5/150 2/60 2/60 2/60 2/60	1/15 6/134 5/150 4/120 7/49 1/30 3/90 3/60 1/15 2/60 1/15 2/60 3/45 3/45 3/45 6/180 2/60 2/60 2/60	2/30 5/81 4/130 — 12/84 7/49 — 1/30 3/21 1/30 3/45 — 1/30 3/90 — 2/30 — 6/180 5/150	2/30 5/150 1/30 — 7/49 — 5/35 — 2/60 — 4/120 — 4/120 — 3/90 — 3/45 2/30 — 3/90 5/150 2/60	2/30 7/141 4/120 — 7/49 — 1/30 5/111 — 1/30 3/90 — 1/30 3/90 — 5/75 1/45 3/90 2/60 2/60 1/30	2/30 8/194 2/60 	1/15 2/80 4/100 — 7/49 6/42 1/30 3/21 3/60 4/120 1/30 3/90 5/75 2/60 3/90 3/90 2/60	1/15 9/201 4/120		7/141 2/60 3/21 7/49			
Vaseline petroleum jelly Vitalis Wright's coal tar soap	1/30 — —	2/45 2/52 2/30	1/15 1/15		_	2/60 — 1/15	  1 / 15		=		_	Ξ	_	_

# umulative price changes

AMENDING C&D QUARTERLY PRICE LIST FOR JUNE 1965

	6 PS & T)		0	12.11	7 /		Apyrogen (34 A & H)				D	Betalin Complex (413 Lilly)			
eodorar air crea		51	9	12     2	7 6 7 6 7 6			22 0	_	2 9	D	Betnesol-N (518 Glaxo) nasal spray 15mils			
iquid sha having la			9	12     2	7 6 7 6			26 0ea 26 0	=	39 0 3 3		Bi-Citrol (1336 WJ&C) granules 80 0	20 0	11	0
	McGlasha			12 11	, 0		100 3	31 Oea	_	46 6		Bien-etre (I Abbey)	20 0	''	٥
wder si	ngle	36		9 0	5			18 0 55 0ea	=	6 <b>0</b> 82 6		splash Cologne	12 9	7	6
dou		l gross) 54 (	0	gross) 13 6	7		Aquacell (1553 Contact	tasol)				ilitre 84 0	21 0	12	6
		gross)	(1)	gross)		D	Aqua-Net (1092 Saga)		entry			1 litre 132 0 1 litre 18 8ea	33 0 4 8ea	19 a 32	6
	36 Evans) Dunits/mil						Aqua-Net (1524 Cheminal Spray	bro)				Bio Strath (29 Alfonal) vitamin tonic 8oz 18 9ea		25	
80	l0mils units/mil	43	l	_	4 10		aerosol 6\foz	38 0	9 6	5 6	D	Biotexin (518 Glaxo) all products		23	U
	10mils	84 9	,	_	9 5		30z   80z	61 3 76 6	15 4 19 1	8 9 10 9		Birleys (131 Birleys) antacid powder 16 0	4 0	2	2
x (520 C	Gnome)	10	6ea	_	15 0		sachet refill	12 0	3 0	1 9		34 8	8 8	4	9
ameras 3	35mm				263 7		Ardena (60 Arden) traveller II case					tablets 16 0 Bishops (132 AB)	4 0	2	Z
Golf I A		=		=	38 4		956-00 Asahi Pentax (1027 Ra	ınk) —	_	30 0		fruit saline natural 100 gm 38 0	9 6	5	a
Golf II	A	. =	-	_	552 0 65 1		camera 35 mm	,			_	Bisks (175 BCP) 12oz 60 9	´— `	6	š
naline (	1091 Ryba	r)					55 mm f2 lens Sla	_	_	1590 0	D	Blue Star (177 BDS) Body Mist (10S BTD)			
ijection	(16 Agfa)						55 mm fl·8 lens SV	_	_	2200 0	D	roll-on and refill			
negative	film CNI						case	=	=	97 8		Bovril (152 Bovril) 20z 22 2	_	2	2
35mm	12 exp	cassett	:e	_	6 3		Asilone (117 BPL) paediatric					4oz 40 10 8oz 71 6	=	2 4 7 12	0
	20 exp	_		_	7 9 6 9		sachets (25)	4 6ea	l dea	7 10		16oz 130 0	=	12	9
roll film	Rapid ca	assette		_			Astral (333 Cupal) air freshener aerosol	s			D	loz — invalid 2oz 37 0	=	3	4
127, existing	120, 620	_		_	6 6		apple blossom 60z	34 6	_	_		4oz 66 0	_	5 I 11	Ó
CN17							apple blossom			2 11		80z 125 0 Bravo (153 BSC)	~	11	U
imycin iblets	GU (1263	3 Upiot	nn)†s4 7ea	B TS	_		8oz bouquet 12oz	38 4 55 0	=	3 11 5 6		toilet roll 27 8 (6 doz)	_	_	
	100		Dea	_	_		Caribbean night	34 6			D	British Dental (177 BDS)			
okole (7 ablets	781 Lusty) 50	21 (	0	5 3	3 0		magnolia		_			Britmarine (555 Haffenden) hot water bottle			
	125	48 (	0	12 0	7 0			38 4 34 6	_	3 11		Nodland 46 0	_	5	9
prel (II	ether (394	i Dr)					. Boz	38 4	_	3 11		Brolene (971 PSMB) eye drops 15 mils 24 0	_	3	0
	ors 1556 i	Farillon	)			D	bubble pack blocks forest pine					Bronnley (194 Bronnley) pre-make-up			
rex (15)				_	_		Astral (509 Gibbs) soap toilet	10 4	2 7	1 3		soap (3)		6	0
single	, u c	34		<u> </u>			bath	iš 2	3 91	i 10		Broxodent (1176 Squibb)			
double		(3 doz		_	_		Atomol (34 A & H) nasal spray	30 0	_	3 9		toothbrush 76 11 Brylcreem (105 BTD)	17 7	108	5
dal (75		(l½ doz	:)				Atrixo (1164 SSL) hand care tin 409 10	06 2	26 0	15 6	D	dispenser 210cc			
blets 0	7 Lewis) ·5 gm 20	32	0	_	4 0		Ayrton (78 AS&Co)	,0 2	20 0	.5		Bunty (234 Cartwright) baby pants super 15 3	_	_	
			0	=	18 6 87 6		cream of calamine with benzocaine				D	shampoo			
lope (V	Weil (960 .	ADP)					4oz	18 0	4 6	2 6		Butazone (1515 CD) †s4B tablets 100mgm 100 13 6ea	=	=	
m bath	toilette	16_0	ea	3 Ilea	30 0		Sundries bathroom scales					500 6S 0ea 1000 128 0ea	=	=	
	2oz		ea	5 l½ea 7 8ea	37 6 56 0		"Prestige" Baby Life(1499 BLP)	31 Oea	3 0ea	49 6		200mgm 100 26 0ea	Ξ	_	
	8oz		ea ea	12 2ea	91 0		baby squares					500 128 0ea 1000 254 0ea	=	_	
usette	20z 3½0z	23 6	ea ea	5 9ea 8 3ea	42 0 59 6		muslin (12) 24 × 24in - 1	8 6ea	_	24 9		Buttercup (415 Ellis) syrup 18 4	4 7	2	5
	Venus bat	h oil					(6) terry popular	9 6ea	_	12 11		26 8	6 8	3	6
obines	12		ea ea	16 lea 1 4ea	120 0 1 <b>0</b> 0		(12) 24 x 24in 2	23 6ea	_	30 9		36 8 Cafergot (1098 Sandoz)	9 2	4 1	0
	łoz	15 3	ea ea	3 9ea 6 4ea	27 6 46 6			2 0ea 30 3ea	=	16 0 40 6		tablets †s4B			
	Īoz	46 9	ea	II 5ea	82 6		(6)	5 6ea	_	21 0		Cafergot Q (1098 Sandoz) †s4B Caldecium (695 TK)			
	2oz 4oz		ea ea	20 7ea 38 8ea	147 6 277 6		baby teats Babytown (1554 AC&S)	5 6	_	8		9oz 30 0	_	3 9	9
³. (291	Consolida				_,, .		fluffy puffs I muslin squares	Ŏ II		1 4		Calmitol (621 Horlicks)† Camilatone (563 Hampshire)			
tomach	powder 100 gm			15 0	_		24 x 24in (12) 2	20 4ea		27 1	D D	henna cream Canon (1136 Silber) existing entri	ies		
ablets	50	45 (	0	11 0	_		28 x 28in (12) 2 30 x 30in (12) 3	25 4ea 30 4ea		33 9 40 5	U	Canon (1136 Silber)			
NK (	250 1432 APSL		Jea	3 9ea	_		terry squares 24 x 24in (12)			41 7		cameras 35mm  Demi with case —		575	6
blets 12	2S mgm						Band-Aid (672 Johnson	)		7, /		"c" —	_	575 999 873 759	6
	100 250		3ea 6ea	Ξ	=			4 3	_	6		"Rapid" —	=	759	5
	500	88	6ea	_	_		Bell & Howell (1027 R					Dial — FP body only —	_	729 959 1471	5
25	0 mgm		0ea		_		cine camera 8mm Autoset II 390	_		399 0		FX body only —	=	1471	2
		35 88		=	= =	D	Belze (110B) tablets Betadine (117 BPL) anti	iseptic s	olution			case for the above —	_	99	6
	500	175	6ea	=	=		aerosol spray			20 11		Pellix body only —	_	1998	4
	1000	350	oea	_	_		100 mils 1	/ dea	4 Sea	30 11		case —	_	117	

when prescriptions call for INSULINS, supply

## WELLCOME

• SOLUBLE • LENTE • PROTAMINE ZINC • GLOBIN



1		50	II LUIV.	11	TO THE CHEMIST MAD DROUGHT	diy io	, 15
	7S body only —	-	1915 0	D	Choodler (1195 WS) Econocil V-K (1515 CD) TS		
	cameras cine Zoom EEE —		1799 6	D	Choodler (259 Choodler) granules Clipper-Safe (254 WHC) for syrup 2oz 3 1	lea —	1
	case —	_	126 0 2925 9	_	Clippa-Safe (273 Clippa-Safe) tablets 125mgm 100 18	Bea —	1
	Zoom 512 — outfit case —	=	211 0		hair colour 31 0 7 9 4 6 1000 178 0	Dea — Dea —	4
	projector Cinestar 8mm —	_	999 6		Contactasoak (1553 Contactasol) 250mgm 100 36	Bea —	1
D	Canonet (1136 Silber) existing en	tries	,,, 0		soaking solution 1000 358 (	ea —	
	Canonet (1136 Silber) cameras 35mm f/1.9 —		799 6		100cc 92 0 — 11 6 Electra-brush (1555 Corsectric	) .	
	case —	=	79 6		contact lens and massager 100 Oea		ea 168
	junior — case —		599 6 63 0		wetting solution spare brush heads 10 Oea 10cc 24 0 — 3 Elegant Touch (900 Norton)	-	15
	"S" =	_	1099 6		50cc 84 0 — t0 nail lacquer		
	case —	_	79 6 959 6	D	Corvette (1534 Corvette) existing range applicator 84 0	21 0	12
	case	=	79 6		Corvette (1534 Corvette) after shave  31 1 7 4½ 4 6  Elizabeth Arden (60 Arden) gift boxes 957.00	_	177
*	camera cine — — — — — — — — — — — — — — — — — — —	_	999 6 79 6		hair cream 24 2 5 9 3 6 959.00 —	_	231
	Cardiacap (291 Consolidated)		,, ,		pre-electric 960.00 — shave 31 I 7 4½ 4 6 961.00 —	Ξ	252 273
	capsules 30 8 6ea 200 47 0ea	_	_		shaving bowl 5! 10 12 3 7 6 962.00 —	_	315
	Cardiacap-A (291 Consolidated)				shaving cream mens gift boxes	_	399
	capsules 30 10 0ea 200 57 6ea	_	=		lather 24 2 5 9 3 6 940·00 —	_	30
D	Carezza Sauze (317 CS) entire ent	try			shaving stick 27 7 6 $6\frac{1}{2}$ 4 0 hairspray aerosol 65 0	16 3	9
	Carlton (228 Carlton) suspension NK 4oz 87 0	_	_		refill 19 0 4 6 2 9 Enteromide (291 Consolidated		
	16oz 26 6ea	_	_		talcum 31 1 7 4½ 4 6 tablets 25 7 0er Coty (301 Coty) 200 38 0er		
	Cassandra (Weil (960 ADP)) Secret de Venus bath oil				deodorant Enterosan (1558 MCL) "Correct" tablets 16 40 0		5
	bobines 12 66 Oea	16 lea	120 0		spray 46 6 11 4 6 9 500 60 0ea		- 4
	1 5 6ea 1oz 15 3ea	1 4ea 3 9ea	10 0 27 6	D	Crystodigin (413 Lilly)  tablets 0·2mgm  D Envol (726 Lancome) existing en	itries	1
		6 4ea	46 6		Culmak (332 Culmak) shaving brushes eaux parfumee 6431		40
	loz 46 9ea	II 5ea	82 6		Prince 195 5 48 10 28 6 6432	-	68
	2oz 84 6ea 4oz 158 6ea	29 7ea 38 8ea	147 6 277 6		cold sore lotion 11 10 2 8 1 9 perfume	_	84
	Caved-S (1237 Tillott)				dusk cream 22 6 5 1 2 11 gold-and-white decor		45
	tablets 30 58 0 60 100 0	14 6 25 0	8 5½ 14 7	D	glycerin lemon and honey handbag	_	-
	240 31 Oea	7 9ea	54 3	D	pile ointment size 6419 sore throat tablets ½oz 6418	_	45 52 84
	600 75 6ea	18 10 <u>1</u> ea	a —	D	brilliantine 1202 6411	=	84
	C.B.L. (1490 IAPS) †sls4A tablets 250 25 10ea	6 5½e:	a —	D	tonsillitis and sore throat mixture Toz 6412  Cussons (388 Cussons) 20z 6413	=	135 240
	Cebeviton (179 BDH)	l 8ea	11 9		Fascination talc 4721 20 6 5 $1\frac{1}{2}$ 3 0 $3\frac{1}{2}$ 0 6414	-	360
	Celtex (1164 SSL) sanitary towel				Cuticura (993 PD&C) perfume (distributors 885 N&P) atomiser 6407	_	67
	super soft   12   18   4     18   26   9	_	2 0 2 11	D	soap 2050 refill 6409	-	45
D	6 —	_			Dabitoff (430 Eucryl)  24 3 — 2 9 skin perfume atomiser 6497	_	115
	sanitary pants "Slimline" 37 4	3 9	11 4		Dapsodine (358 D&S) refill 6498	-	63
	Ceporin (518 Glaxo) TS				syringes 12 264 0 — 33 0 Ergodryl (938 PD) †s4B		
	vial 250 mgm	=	12 6 58 6		Engolitect the (177 BBT)   end	,	
	500mgm   1   15   8ea	-	23 6		Capsules 60 37 8ea 9 5ea 65 II Ergo-Rondase (436 Evans) †s4l	,	
	5 75 0ea Certor (786 MacDonald)	_	112 6		Dayfur M (358 D&S)  intramammary  Esobactulin (1166 Southon)  double pack		- 1
	bandage w.o.w.		4		syringes 12 280 0 - 35 0		
	l in x 3yd 2 1½in x 4yd 4 0	=	6		tubes 12 220 0 — 27 6 Eucryl (430 Eucryl)		
	2in x 4yd 5 0 2in x 4yd 5 11	_	7 8½		black drink 2½oz 40 0 12 0 6 0	2 7 3 8	2
	3 in x 4yd 6 11	=	10		Driffield oils 1002 70 0 21 0 70 0 tooth powder 10 4	2 7	I
	4 in x 6yd 12 8 6 in x 6yd 18 6	_	1 6 2 2½		etheric smokers 16.10	3   1   4   2½	2 2
	bandage triangular unbleached	i	2		red drink 7lb 24 6ea 7 4ea 44 0 Evanol (432 Evanol)		
	54in x 38in 14 10 cotton wool absorbent	_	_		14lb 47 9ea 14 4ea 86 0 brighteners 1 28lb 90 0ea 27 0ea 162 0 loz 24 0	6 0	3
	$\frac{1}{2}$ oz $\frac{5}{7}$	_	8 11		white oils 10oz 70 0 21 0 10 6 2oz 40 0	10 0	21
	2oz 12 1	=	1 5		20oz 133 4 40 0 20 0 100z 12 0e: Doubly blooch (907 Onless)		
	4oz 21 0 8oz 37 3	=	2 6 4 6	D	hair dye	10 0	5
	16oz 69 0	=	8 3		Oil bleach 20z 24 0	6 0	3
	non-absorbent IIb 34 0		4 0	D	cream dyest 31 0	7 9	4
	hospital quality		9	D	ear drops Evaset (437 EW)	3 0	
	loz 6 4 2oz 9 11	=	1 2	D	Degualone (34 A&H) lotion	avers	1
	4oz 16 8 8oz 28 6	=	2 0 3 5 6 2	D	paint 0.5% 28 mils 70 0 — 8 9 Eminent 80 Oer	a 19 3e	ea 126
	16oz 51 6	_	6 2		Deseril (1098 Sandoz) †s4B Dihydroergotamine (1098 Sandoz)†s4B Express (1036 RB&C)	0 50	
	gauze plain 3yd 4 0 3yd 5 8	=	6 8		Dixie Peach (573 JH) powders and tablets		
	Îýd 9 11	_	1 2		hair straightner 22 0 5 6 3 3 8 powders or	3     1   2	2
	3yd 22 2 6yd 40 10		2 8 4 9		40 0 10 0 5 10 22 powders 40 3	10 1	5
	12yd 79 2	-	9 4		64 0 16 0 9 4 66 powders 9 5½  Docteur Pierre's (1407 Jaccaz) Eyeclear (1553 Contactasol)	-a 2 720	*
	loz 11 3	=	1 4		toothpaste 32 0 8 0 4 11 eye drops 20cc 48 0	-	6
	2oz 19 9 4oz 36 3	=	2 4 4 4		Dop (525 Golden)	_	5
	8oz 68 0	_	8 1		shampoo 27 9 6 11 3 9 Eylure (443 Eylure)		
	160z 130 0   plain	=	15 4 10		overblanket 252 0 contour 36 0	9 0	5
	Îoz 10 8	_	1 3 2 6		single OD 378 0 face powder brush 15 4	3 10 12 10	5 2 7 5 5 4 3
	2oz 18 6 4oz 33 9		4 0		Dylon (816 Mayborn) 39 4	9 10	5
	8oz 63 0 16oz 120 0	=	7 6 14 3		(6 doz) liqua-liner 37 8	9 5 7 8	4
	Chappie (967 Petfoods)				Dyspne (1336 WJ&C) Nailfix remover 28 0	_	3
	handy 6 doz 41 l large 4 doz 48 5	=	1 3		Easifix (1160 Solport) oily nail polish	6 10	4
	Chilton (257 Chilton)				finger stalls 8 9 — / remover	7 3	4
	electric hair clippers				toilet water 2oz 11 0ea 2 8ea 20 0	, ,	
	presentation						
D	presentation set ————————————————————————————————————	_	115 0		8oz 30 6ea 7 5ea 53 3 professional		

ulo (554 Haetam		s			Fli-Flap (Cadoricin)(386 Do	ouek) 4 I I I I	1 1		36 slices 27 0 Slymbred 36 slices 25 6	_	3 0 2 10
combs nylon		2 0			single bottle 31	0 7 9	4 6		starch reduced	_	
dressing 8in pocket 5in	5 0	2 0 1 3	=		double bottle 48 tube 31	0 12 0 7 9	7 0 4 6		36 slices 25 6 wholemeal rusks	_	2 10
5½in tail 8½in d	5 6 ordinary	1 4½	_		Forhans (1151 F&J) tooth-paste 14	10 3 81/2	2 1		12 slices 11 3 36 slices 27 0	=	1 3
	7 6	1 10⅓	_		Fraicheur (Weil (960 ADP)	5 5 41/2	3 0		Hibitane (649 ICI) concentrate 5%		
	with ball points	1 10 <del>1</del>	_		foam bath		30 0		100 mils 51 0	_	6 41
7∦in o	double sided 7 6	1 10}	_		Franol Expect (97 Bayer)†: 150 mils 56		7		500 mils 136 0 1 gal 89 3ea	_	17 0 133 103
combs styling all purpose	6 8	1 , 8	1 0	D	140 mils Frazone (731 Langford)				diacetate 10 gm 63 0 gluconate 20%	_	7 10
brush & tail	6 0	1 6	· ii		bath salts large		2 6		w/v 100 mils 112 0	_	14 0
combined mire brush & tail		2 0	1 4		Frescabel (726 Lancome) cream 222		27 6		500 mils 44 3ea hydrochloride	_	66 4
hair rollers bouffant 6do	oz. 9 0ea	2 3ea	2 9		tube 223		39 6 31 6		10 gm 71 6 100 gm 57 3ea	=	8 I I 80 4
		3 8	doz.		Frozoclone (365 Demuth) (distributors 1054 R&A)				obstetric cream		3 2
	10 14 8	3 8	2 3		32		4 9		100 mils 25 6 2 litres 15 4ea	=	23 0
No. 1 No. 2	8 14 8 6 14 8	3 8 3 8	2 3 2 3		Frozolavender (365 Demu (distributors 1054 R&A)				dispensers 64 0 Hi-Glo (437 EW)	_	8 0
No. 3 No. 2/T	4 14 8	3 8	2 3 2 3	D	Fumite (1296 Waeco) 32		4 9		hair spray 6oz 31 0	7 9	4 6
No. 4/T	3 14 8	3 8	2 3 2 3		Fumite (1557 PWL)				Hosezene (625 Hosezene) sanitar cotton size 0 23 5	y towels	2 6 2 9
No. premium new style	7 14 8	3 8			Furan (ISIS CD) tablets 50mgm 50 23	0ea —	_		I 25 9 2 30 5	=	2 9 3 3
medium large	6 12 3 4 12 3	3 0½ 3 0¾	-		250 113 1 100mgm 50 43		=		3 38 6	=	4 0
ex. large	3 12 3	3 0 <sup>3</sup> / <sub>4</sub> 3 0 <sup>3</sup> / <sub>4</sub>	i ii		250 213		_		4 42 2 5 46 10	_	5 0
plastic ladies	12 4	3 1	1.11		Galloways (430 Eucryl) cough syrup [6]		2 4		Huskolein (358 D&5) 20oz 120 0	36 0	18 0
nail brush soap boxes	20 6	5 I ½	2 11			8 6 5 0 <b>3</b> 9	3 6 2 0	D	26oz Huxley (491 GB)		
medium large	8 6 10 6	$ \begin{array}{ccc} 2 & 1\frac{1}{2} \\ 2 & 7\frac{1}{2} \end{array} $	=			4 5 10	32	D	baby powder 3oz		
mel (690 Keldon)	)		_		dry shampoo 20	0 S O	2 11	D D	dusting powder 80z & 160z witch hazel jelly 20z		
pastilles childre mergin (1098 5ar		4 3	2 3		Germaine Monteil (1486 ( Idol-Eyes	GM)			Hydergine (1098 Sandoz) †s4B Ilford (645 Ilford) cameras		
rfolic (17 Agprol tablets	in) 100 6 0ea	_	_		cake eye shadow compact -		22 6		Sprite 35 32 10ea	8 2½ea	S7 6
	2SO 14 Oea	_	_		dual bias brush -		17 6		5prite 127 kit 21 5ea Iltovax (208 BW)	5 4ea	3 <b>7</b> 6
	500 26 Oea 000 50 Oea	_ =	=		Super-Clean - facial brush -	= =	25 0 21 0		vaccine (vet.) 100 dose 18 9ea	_	25 0
gluvite with folio		lin)			Germoloids 104 BP)	7 12 7	6 6		S00 dose 86 3ea	_	115 0
rania (1017 Pullir rrania (1800 MM					Gillette (514 Gillette) razor 5lim-Twist 35		5 0		Innerclean (198 B&W) herbal laxative 28 2	7 01	3 9
reversal 25f	. <u> </u>	_	12 6		Gnome (520 Gnome)	19 0 7	5 0		I-So-Gel (34 A&H) 200 gm 71 0	18 0	9 9
I6mm 30metre		_	40 0		projector Alphax				5 lb 48 0ea	12 Oea	75 9
35mm cassette					Major 721 – Classic 746 –	= =	579 6 289 6		Italian Marble (I561 MD) soap 38 0	9 6	5 6
(36 exp.) reload	=	=	7 5 4 5		Goya (532 Goya)		20,		Jectofer (68 AH)		
roll film, 127, 120, 620	_	_	3 9		deodorant spray puffer 27	6 6 101	4 0		ampoules 100mgm × 2mils		
raniacolor (1017	Pullin)		• •		Golden Girl beauty puff				100 154 10ea		_
rraniacolor (150	0 MM&M)				cocktail compact 98 30	II 7 6 <del>]</del>	4 6	D	Jergens (1524 Chembro) Jergens (261 Christy)		
reversal 25ft		_	29 7		perfume	-			Johnsons (672 Johnson)		
16mm 30 metr 35mm film casses		_	<b>80</b> 9			3 10 03 4 8 4½	6 0 5 0		baby gift new 234 10 gripe mixture 19 8	47 3 · 4 II	32 6 2 9
(36 exp.) reload	=	=	19 6 16 6	D	Gravergol (1441 Wallace) † Hæmamol (394 DF)	†s4B			oil 26 10	6 81/2	3 9
(20 exp.)	_	=======================================	14 0		Haldrate (413 Lilly)				soap 8 1½ 12 7	2 0½ 3 2	1 8
reload roll film 127	=	_=	10 0	D D	tablets Imgm Halina (1136 Silber) existing	g entries			belladonna plaster		
120, 620 . Dia 28 film	_	_	10 6		Halina (1136 5ilber) cameras A.I –		159 6		12×5×7½ in on red felt 16 9	4 21/2	2 31/2
35mm cassette (36 exp.)	_	_	36 9		case - 6-4 -	= =	39 5 99 6	D D	Joli Mai 5auze (317 C5) entire enti Joyeux Ete (726 Lancome) existing	entries	
(20 exp.)	_ =	=	25 6-			= =	29 11		Joyeux Ete (726 Lancome) eau de centeur 8587 —	_	40 0
Rapid casset roll film 127	Te _	=	18 6		35X – case –	= =	153 3 <b>29</b> 11		soap 060 —	_	6 6
120, 620 cut sheets	_	_	22 0		Paulette case		179 6 39 6		talcum metal 590 — plastic 591 —	_	12 3 12 6
5 x 4in I	0	_	8 <b>7 6</b>		Rolls -		119 6 29 11		Justso (1160 5olport) wrist straps 32 6	_	4 0
rrocap (291 Con capsules	solidated) 20 5 3ea	_	_		case - Simplette F -	= =	99 6		Kerfoots (695 TK)		Ť
	00 45 Oea	_	_		Viceroy -	= =	19 9 79 6		pastilles Gees linctus BPC † 11 6		
sponge	29 0	7 3	4 3		case (salpa) - (canvas) -	=	18 0 10 6		BPC † 11 6 glycerine of	_	1 6
rrol (573 JH)† J Rouge (317 C5)	entire entry				Halinamat (1136 5ilber)	_			thymol 13 6 -	- 1	1 9
elds (462 Field)					projector 300 - Hand-e-cream (1166 5outh		273 0		eucalyptus 13 6	_	1 9
	y, dusting powe	der, perfu	ne		Handjoy (485 Fulford)	0 6 6	3 9		Kerofil (695 TK) lozenges 28 17 0	4 3	2 6
spray, shamp French Pink					hand cleanser dispenser 17	0 4 3	2 6	D	Ketovite (930 P&B) supplement syrup both sizes		
dusting power	ler, shampoo			D	existing pack			_	supplement	_	7 6
French Moss Cologne spra	y, dusting powe	ler, perfui	me		Harriet Hubbard Ayer (8 bronze	852 Plolyneux)			500 mils 20 0ea	=	30 0
spray, shamp ches (726 Lancon	ne)			D	permanent 165 - Healthcrafts (584 H)		21 0		Kisby (573 JH) dry shampoo 24 0	6 0	3 6
ches d'Or (726 L	ancome) existin	g entries			Healthcrafts (29 Alfonal) Helena Rubinstein (596 H	IR)		D	62 0 Kitien (I Abbey)	15 6	8 6
eaux parfumee	6531	_	40 0		eyeliner pencil -		10 6	D	Kitien (1407 Jaccaz)		
	6532 6533	=	68 0 84 0		fashion brow - "Conceal"	_ =	12 6 12 6		Kleenex (702 KC) kitchen towels 15 9	_	19
perfume gold-and-white o					"Headliner" "5kin-Dew"	= =	10 6	D	Klik (563 Hampshire) aerosols Klik (563 Hampshire)		
debutante	65129	_	45 0	-	Hepastab (147 Boots)				Fly killer		6 6
handbag size	6519 6518	=	45 0 52 6	D	forte vial 10 mils Hermesetas (1000 PPL)				Kodak (711 Kodak)	_	3 0
loz loz	6511 6512	Ξ	84 0 135 0	D	liquid 25 mils 31 Heudebert's (794 MNF)	6 —	3 6		electric 8 automatic camera 409 6ea	102 5ea	732 5
20z 3½0z	6513 6514	_	240 0 260 0	_	Heudebert's (115 Bengue) Biscottes 12 slices 11		1 3		Instamatic camera outfit chemicals 67   1   ea	l6 lea	
3202	0314	_	200 U		piscorres 12 stices 11	_	, ,		C. C		,

	D-163 developer				93T -	-	_	12 3		form E—short			
	250cc 32 0	- 4	0	2	293 -	-	_	15 6		blunt liner	14 0	3 6	2
	500cc 52 0	- 6 - 31	6			_	_	23 6 39 6		form G—short	14 0	3 /	-
	l gall 20 8ea		•			_		14 6		liner form H—	14 0	3 6	2
	powder I litre 28 0	_ 3	6	bath 6	633 -	=		22 6		carmine liner	20 0	5 0	2
	D-76R		•	Grain-Fin 21	12T -	_	_	13 6		Lenium (97 Bayer)			
	replenisher 80oz 56 0	_ 7	U	hair spray Hesperides 2		_	=	17 6 15 6		sachet	20 8 (3 doz)	5 2	1
D	Brownie					_		22 6	D	existing sachet	(3 doz)	(3 doz)	
	127 & outfit —		-	Lancomatic						Lewlab (757 Lewis)	_		
D	Cresta 3 —		-	mascara 2		-	_	18 6		inhalers			
D	Autosnap	_				_	=	12 6 27 6		model "A"	200 0	-	25
D	with case — Kodablitz					_	=	15 6		Liga (760 Liga)	100 0		12
	flasholder 62712 —		-	lipstick						low protein			
D	Kodalux L meter					-		10 0		biscuits	20 0	_	2
D	projectors — 500 model BX —		-		81 -	-	_	27 6		Ligne Oceane (726	Lancome) cr	eams	
D	Kodaslide model		-	lipstick "Neosatin" 8	809 -	_	_	10 6		Aphrodite No. 2	_	_	40
_	2, 40, 50 —		-	lipstick case						Ariane No. 4	_	_	40
	papers Bromide (SW)			"Fontaineblea									40 47 40
D	3 × 3 25 —		-	208 twin cartouche		-	_	57 6		Artemis No. 6	_	_	40
D	Bromesko (DW) 3½ x 4½ 100 —		_		810 -	_	_	9 6		Masque aux			47
D	5½ x 7½ 100 —	_ =	_	de luxe 208		_	_	27 3		Algues	_	_	40
D	9½ × 11% 50 —	ΞΞ	-	lipstick brush 18		_	_	27 6		Neptune No. 5	_	_	40 40 47 40 47
D	10 × 12 100 —		-	liquefying cream	a Bien-A					Maria Mar 2			47
D	12 x 15 100 — 20 x 24 10 —		_			_		11 6 13 3		Neree No. 3		_	40
	Kolynos (655 ICC)					_	_	22 3		5aphir No. 14			_
	chlorophyll			2		_	_	33 0 -		lotion	_	_	29 29 40 47
	toothpaste 17 8	4 5 2	4	make-up base	252			15 /	-	Topaze No. 18	_	_	29
	super white dental	4 5 3	4	Disco teint 2 Fond de	252 -	_		15 6		Triton No. I			40
	cream 17 8 25 3	4 5 2 6 4 3	4	Teint Souple (	057 _	_	_	18 6		Lil-lets (761 Lilia-W	hite)		7/
	Kopil (667 JCL)	J 7 3		Maquivit						regular	10 16 11	_	-
	camera IIIA			Magie plastic							20 31 0	-	3
	cine JK43 —	819	0	case	358 -	-		21 0			10 19 10 20 35 10	-	3 2 3 2
	Zoom 8EE	701	0	de luxe case 3	354 <b>-</b> 356 <b>-</b>	_	=	42 0 10 6			10 21 6	Ξ	2
D	Zoom 8EE JK44 —	<u> </u>		Conquete plastic		_	_	,00		mixed	20 35 11	_	
D	pistol grip JK38 —	= =		case 2	258 <b>-</b>	_	_	21 0		Lingraine (97 Bayer)	†s4B		
	Kuranol (1490 IAP5) †			de luxe case 2	254 -	_	_	42 0		Locabiotol (1123 5L			
	ointment loz 42 0		1	refill 2		_	_	10 6	D	(distributors 1556 Lofenalac (1450 BDH			
	suppositories 12 42 0	10 0 6		mascara case	201			10 4		Lofenalac (179 BDH			
	100 21 0ea	5 3ea -	-	with mirror 2 refill 2		_	_	18 6 12 6		Lomodex (1530 Fiso	ns)		
	Kute (1160 Solport) wrist straps 27 6	_ 3	6			_		13 0		solution 540 mil	s 40 Oea	-	
	Kwells (893 Nicholas) †		ū			_	_	22 6		Louis Philippe (386 beauty treatment	Douek)		-
	original 10 22 6	_ 2	6	I	170 -	-	_	15 6		make-up	75 0	18 9	11
	new quick 12 27 0	<b>—</b> 3	Ö			-	_	10 6		lipstick case			
	Lactagol (720 Lactagol)			frosted 4	402 -	-	_	13 6		empty	39 0	9 9	5
D	tablets 60 28 5	7 1 3	9		406 -	_	_	10 6		refill Lusty's (781 Lusty)	62 0	15 6	8
D	tablets 48 Lady Esquire (1481 LE) products			enamel						back and kidney			
	Lancelot's Specific (1336 WJ&C)	)			407 -	-	-	10 6		herbs	17 0	4 3	2
	112 0	28 0 14	8	Ombre Mat eyeshadow 0	093 -			14 6	_	bath cubes (6		6 6	3
D	Lancome (726 Lancome) existing e			powder c	-			, , ,	D	charcoal tablets 5			
	Lancome (726 Lancome)		4	conquete 50	053 -	-	_	13 6		charcoal tablets 6 chlorophyll	0 12 0		
	Abyssale 553T — 533 —	— 39 — 47	6	50	052 -	-	_	25 0		tablets 5gr 10		4 41/2	2 2
	Albatre 123T —	_ 10	6	protective found				10 0	_	3gr 12		4 4½ 4 4½	2
	123 —	_ 16	6	5plendeur I	12T -	_		10 9 15 6	D	cigarette mixture			
	anti-acne			Harmonie 2			_	10 9		constipation herbs	17 0	4 3	2
	cream   182T —   183T —	— 10 — 19	6		22 -	_	= = = =	15 6		digestive			
	anti-acne		9	2	23T -	_	-	19 6		tablets 5		4 0	2 5
	lotion 180 —	_ 27	6		<sup>7</sup> 2T - 72 -		=	10 9 15 6		Fullers earth	0 35 0	8 9	5
	astringent 150 —	- 18	6			_	_	19 6		Fullers earth cream	14 6	3 71/2	2
	151 —	30	0	5ouplesse 10	02T -	_	_	10 9	D	gold seal for cigar		J / 2	
	beauty case "teenager" 4000 —		0		102 -	-	_	15 6	D	mixture for pip			
	"handhag" 4001 —		6		D3T -	-	_	19 6		herbal	- 12 4	2 11	
	"travelling"			regenerative and Nutrix 3	d diering 32T -	creams		12 6		ointment lo cigarette	z 12 6	3 I ½	1
	4002 —	— <sup>45</sup> 1	6			=	_	22 6		mixture			
	cold cream 83T — 83 —	= 13	3		32 -	_	_	18 6		de lux		_	2 2
	84T —	22	0		33 -	-	_	28 6		gold sea	1 21 6	-	2
	85 —		6	3		_		28 6 42 0 79 6 24 0 32 6 24 0 38 6 18 6		pipe mixture 20	z 8 6	_	- 1
	cream for the	_ 44	4	creme 9 9	2T -	_	_	24 0		80		7	
	legs 443T — cream fortifiante	_ 44	0		92 -	_	_	32 6		gold sea		-	1
	403 —	_ 11	6	5culpturale 13	32T -	_	-	24 0		tablets,		4 0	3
	cream emollient			Adieu-Rides 4		<del>-</del> -	_	38 6 18 6		special 5 15		4 0 8 9	2 5
	404 —	_ 11	6	Adieu-Rides 2		=	_	27 6		Indian Brandee 20		ı ý	Ĭ
	deodorant compact 6170 —	_ 10	6	Empreinte de						iodised vegetable			
	Douceline 243 —		6	Beaute 14	42T -	_		17 6		salt celery	. 12 0	1.0	
	eau de Cologne -	<del></del>	6			-	-	27 6		poure 7o		1_0	2
	Effacil 208 —	_ 17	6			=		48 6 13 3		garlic poure		1_0	î
	eye liner brush 971 —	_ 10	6			=	_	22 6		kelp powder			
	liquid plain 097	= 16		tonic blue	160 -	_	_	14 6		pure 4o		4 11/2	2
	irridescent				161 -	-	-	21 0		8o 7o		6 I <del>1</del>	3
	097N —	_ 16	6		165 -	_	_	39 6		malted tablets 100	0 14 0	3 6	23
	eye shadow, plain 091 —	_ 11	6	plastic container le	605 -		_	15 6		lecithin			_
	spangled 092 —	= ;;		Lanolin Gold (172						capsules 6		7 0	3
	irridescent 096 —		6	lather shave						lemon hand	0 52 0	13 0	6
	stick 812 —	- 18	6	cream	23	5 5	5 10	<b>3</b> 3		cream tub	e 16 0	4 0	2
	eyebrow pencil case empty 1203 —	_ 22	6 D	Lanoxin (208 BW) tablets 0:0625m						natural herb			
	refill 1204 —	_ 22		Lanoxin-PG (208 I						tablets 5	0		
	face-cleansing			tablets	100 38	0	_	4 9		natural herb tablets 6	0 13 6	4 41/2	-
	brush 3000 —	- 12		Lastonet (733 Last							0 16 0	4 0	2 5
	Filtre 5olaire 204T — Flatteuse 253 —	<del>-</del> 16	0 D	Fast Aid spray b Leichner (749 Leic						15	0 35 0	8 9	5
	Fluide 233 —	_ 18	6	form C—						perfume, Indian F	lowers,		
	fond de teint			standard stick			5 6	3 2		Eastern Poppies	,	7 9	1
	solaire mat 058T —		6	gold and silve		6 6	5 10	4 0		Flor d'Orient	31 0	, ,	1

10, 1965	SUPPLE	MEN	T TO THE	CHEMI	ST A	ND DR	RUG	GIST	5
pilewort ointment tube 19 6	4 101 2 9		white and grey	gross 75 0	gross 7 0	_		Misty (1092 5aga) creme rinse	
tablets 50 17 6	4 41 2 6		nylon 10in	gross	gross			sachet 43 7 10 11 (1 gross) (1 gross)	6
tablets 40 13 6 tea 17 0	3 4½ 1 11 4 3 2 6		50C,50D	32 0 gross	3 0 gross	_		cuticle remover 10 4 2 7 hair spray	1 5
rheumatism herbs 17 0	4 3 2 6		122C,122D	31 6 gross	2 0 gross	_		sachet M.5 7 3   1   10 M.4   12 8 3 2	1 9
seaweed tablets 50 16 0 150 35 0	4 0 2 4 8 9 5 0		51C,51D	30 9 gross	2 10½ gross	_		aerosol 6oz 32 8 8 2 8oz 41 10 10 5	4 6 5 9 7 6
and celery tablets 50 16 0	4 0 2 4		setting and slumbe 29C,29D,88C,88D	r 40 0	3 9	_		crystal clear	1 9
150 35 0 and sarsaparilla	8 9 5 0		99D	gross 66 8	gross 6 3	_		sachet 12 8 3 2 aerosol 6oz 32 8 8 2 8oz 41 10 10 5	4 6 5 9
tablets 50 16 0 150 35 0	4 0 2 4 8 9 5 0		silk 10in 28C,28D	gross 33 4	gross 3 1½	_		16oz 53 4 13 4	7 6
sleep inducing tablets 50 16 0 150 35 0	4 0 2 4 8 9 5 0			gross	gross			New Yorker aerosol 6oz 25 6 6 5 16oz 43 0 10 9	3 6 5 11
slippery elm stomach	0, 30		triangular art silk 2258 nylon	16 6 23 6	I 8 2 2	Ξ		home perm 49 1 12 3	6 9
tablets 50 7 0	1 9 / 0		fine nylon 85 Maws (810 Maw)	23 6	2 2	=		aerosol 6oz 32 8 8 2 Mani-Cure 34 6 8 7	4 6 4 9
Alexandrian loz 15 0 vegetable salt 7oz	_ 18		feeders  pyrex comp.					polish remover 10 4 2 7 Quick Set 35 9 8 11	1 5 4 11
pourer witch hazel			8oz 302.00 4oz 302.11	23   21	=	2 IO 2 7		setting lotion 20 7 5 2 shampoo's lanolin, lemon tonic,	2 10
B.P.C. 15 0 ndiol (917 Organon) †s4B	_ 1 10		spare 80z 303.01	Ī7 4	_	2 2		medicated sachet 29 I 7 3	4
5 x 20 19 4ea	- 6 6 - 29 0	D	8oz 303.22 bottle 348·00	28 0	-	3 6		bottle 20 7 5 2	2 10
starch-reduced	_ 18	D	junior shampoo tub junior shampoo	e				lacquer removing sachet 43 7   0   1	6
crispbread 30 3 (2 doz.)	_		bottle 4oz	24 0	6 0	3 6		(I gross) (I gross) Step Up 18 2 4 7	2 6
adeccol (117 BPL) powder puffer 2gm 7 4ea gie (726 Lancome) existing entrie	10ea   12   10		Mazda (12 AEI) flash bulbs capless					Moorland (234 Cartwright) indigestion biscuits 6oz 25 0 —	2 9
agie (726 Lancome) bath crystals 61601 —	_ 17 6	D	No. I clear Mecablitz (1136 Silber)	— existing en	— tries	9		Morr-Mel (179 BDH)	5 0
dusting powder 61605 —	_ 25 0		Mecablitz (1136 Silber flashgun III		_	231 2		Mu-Cron (657 IL) tablets †s7	, ,
eaux parfumee 6141 —	_ 50 0		115 116	Ξ	=	445 5 322 2		Mucinum (1336 WJ&C) tablets 52 0 13 0 Multi-Rex (1136 5ilber)	6 10
6142 — 6143 —	_ 84 0 _ /40 0		i i 7 I 18	=	=	380 8 464 8		exposure meter and case — — —	338 0
perfume gold-and-white decor	45.0		502 with 6 volt acc. N/C	_	_	1171 3	D	Naclex (518 Glaxo) tablets 50mgm 25	
debutante 61129 — handbag size 6119 —	- 45 0 - 45 0 - 52 6		Mecamains (1136 5ilb	— ег)	_	988 2	Ď	25mgm 25 Neo-Femergin (1098 Sandoz) †s4B	
loz 6118 — loz 6111 — loz 6112 —	- 32 6 - 84 0 - 135 0 - 240 0		flashgun Mecatwin (1136 5ilber	_	_	397 9	D	Neo-Naclex (518 Glaxo) tablets 2.5mgm 25	
10z 6112 — 20z 6113 — 3½oz 6114 —	240 0 360 0	D	flashgun 502 500	´ –	-	394 9	Ď	5mgm 25 Nestle (451 F&J)	
8aton de Magicien 61128G —	_ 55 6		Medihaler Ergotami Mellavax (208 8W) V		ker) †s4B			Natural Net 16oz 65 4 16 4 Neulactil (971 P5M8) †s4b	9 6
mist 6151 — 6152 —	_ 18 0 _ 33 0		vaccine (vet.)	20 7 <sub>1</sub> ea	_	27 6		solution for injection   mil	22 101
perfume atomiser 6107 —	_ 67 6		25 dose Memoire Cherie (60	87 6ea Arden)	_	116 8		10 12 6ea 3 1½ea syrup 2.5 mgm	22 10½ 8 2
refil 6109 — presentation de luxe	_ 45 0		roll on deodorant 792.00	_	_	9 6		/5 mils 125 mils 4 8ea 1 2ea forte 10 mgm /5 mils 125 mils 12 6ea 3 1½ea	22 101
Magie 61202 — 61203 —	- 225 0 - 330 0		hair spray weekender	=	=	17 6 21 0		tablets 2.5 mgm 50 5 0ea   3ea	8 9
powder 6173 — 6172 — skin perfume	_ 15 0 _ 27 6		Mercury (667 JCL) A.G. flash					500 43 4ea 10 10ea 10 mgm 50 13 4ea 3 4ea	75 I0 23 4
atomiser 6197 — refill 6198 —	- 115 6 - 63 0		unit JN34 Merthiolate (413 Lilly	, –	_	68 6		500 116 8ea 29 2ea Neulactin (971 P5MB)†s4b	204 2
soap 060 — talc plastic 591 —	_ 66	D D	suppositories (vag Metercal (1450 8DH)	inal)				syrup   litre 32 8ea 8 2ea forte   litre 88 0ea 22 0ea	57 2 154 0
metal 590 — anicurette (1555 Corsectric)	_ 12 6		Metercal (179 8DH) Methergin (1098 5and	oz) †s4B				Neutradonna (187 85) †s7 powder 25gm 19 0 —	2 4
electric manicure set 34 8ea	8 8ea 63 0		Microfolex (1091 Ryb tablets 100	7 0ea	_	_		100gm 55 0 — tablets 60 53 0 —	6 11
8M (1451 8DH) tulle 3⅔ × 3⅔ 36 9 9⅓	14 9		Migril (208 BW) †s4B	23 10ea	_	_		Neutradonna Sed (187 85) †s s4a tablets 60 56 0 —	7 0
rquise (513 G&C) existing entrie	es		Minamino (291 Conso compound 100mils	6 Oea				Niegeloh (580 DH&Co) nail clippers N4/5 108 0 —	13 6
C100 27 10 C101 26 3	5 7 <u>—</u> .		Miners (876 MP)		_	_		assorted N3/Ass 30 9 7 8 pointed N3/P 30 9 7 8	4 6 4 6
C102 27 6 C103 30 0			lipstick Minette (667 JCL)	18 10	4 81	2 9		straight N3/5 30 9 7 8 oblique N3/A 30 9 7 8	4 6
CI04 28 5 CI05 30 0	5 8 — 6 0 —	D D	slide viewer JE6 Mini Rex (1136 5ilber	)				Nikini (1073 Robinson) sanitary garment	
C106 30 0 C107 32 10	6 0 — 6 7 —	D	exposure meter II Minolta (667 JCL) cameras					pink 66 0 6 7 pads 15 0 —	7 11
C108 34 0 C109 27 10	6 4½ — 5 7 — 5 7 —		Autocord CdS JM181	_	_	1428 6	D	Nipole (667 JCL) tripods	
CIIO 27 IO CII2 31 3	5 7 —		case JM182 Rapid 24 JM186	Ξ	Ξ	97 11 808 6		Nivea (1164 55L) creme tube 364 14 4 3 6	2 1
C114 34 0 C115 26 11	6 4½ — 5 5 — 6 7 —		case JM187 Repo 5 with	_	-	71 6		jar 384 48 0 11 9 366 36 0 8 10	2 1 7 0 5 3
CII6 32 IO CII7 43 5 CII8 43 5	5 6 0 — 6 5 8 0 — 6 6 7 0 — 6 7 7 5 5 7 7 5 6 3 1 1 2 5 5 5 6 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		case JM165 viewer auto	_	-	787 11		family pack 370a 89 1 21 10 shaving cream 280 19 11 4 10	13 0 2 11
C118 43 3 C119 90 0 C122 45 0	18 0 -	D	JMI04 camera ER JMI	-	Ŧ	86 6	D	Nomaze AH (1530 Fisons) No-Met (1414 Strange)	
Cl23 45 0 decorated nets	9 0 —	D	projector 44 JM60					hair wavers and curlers 13 4 3 4	2 0
58,60,62 18 0 human hair nets	I 8 —	D	viewer 16 JM46 Miochol (451 F&J)	dele?!				Nori (1407 Jaccaz) midget travelling	42 0
bun ordinary shades 02 37 6	3 6 —		eye solution "Uni 2cc	21 Oea	-	-		douche 28. 0ea — Nurse Harvey's (578 Harvey) gripe mixture 21 0 5 3	2 10
white and grey 75 0	7 0 —		Mister Smiths (1157 hair dressing aerosol	34 0	8 6	4 11		gripe mixture 21 0 5 3 all retail prices should be bold type. Oil of the Night (358 D&5)	2 10
human hair cap	gross		shaving foam aerosol	34 0	8 6	4 11		(home) 20oz 116 4 34 0 (vet.) 20oz 116 4 34 0	17 0 17 0
ordinary shades 15,2D,35,4D,55,6D 37 6	3 6 —	D	Misty (1092 Saga) exist				D	3oz & 26oz	

	Olbas (65 Ashley) oil 108 0 20 0	12 0 D	Predsol (518 Glaxo) Rheumalen injection I mil & 6 × I mil balm	e (781 Lusty) 21 0 5 3
	pocket inhaler 66 0 12 0	7 0	Pregnavite (1285 Vitamins) Ricils (386 [	
	Old Spice (1131 Shulton)		tablets force (F) Cils Dem	asqu 40 0 10 0
	aerosol deodorant 3872 62 0 15 1	9 6	500 42 0ea — 63 0 eyebrow eye liner	
	hair cream		Preparation "H" (655 ICC) liquid	54 0 13 6
	tube 3042 31 0 7 7	4 9 D	ointment 34 0 8 6 4 6 eye shade Prestige (317 CS) entire entry stick	44 0 11 0
	Opas (1335 Wigglesworth) powder: 8 3   11	1 4	Procol (835 M&J)† lip out-li	
	14 3 3 4	2 3 6	Spansule mascara capsules 8 45 0 — 5 0 comple	ete 40 0 10 0
	24 0 5 6 tablets 10 0 2 4	1 6 D	Profol (1013 Promedico) refill	27 0 6 9
	16 9 3 10	2 6	Profol (1560 JSPD) miniate	
	24 6 5 7 Orgraine (917 Organon) †s4B	3 9	Prominal (97 Bayer) †s is 4a Bross-i tablets gr ½ 100 38 0 — 4 9 D eyelash g	
	Owbridges (925 Owbridge)		gr i 100 50 0 — 6 3 Robinade (	285 Colman)
	lung tonic 20 0 5 0 34 4 8 7	2 9 4 9 D	gr 3 100 108 0 — 13 6 D sachets Promol (1013 Promedico) Robinson's	(285 Colman)
	new formula 21 0 5 3	2 11	Promol (1560 JSPD) D lemon b	earley crystals 4oz
	9 2 pastilles 7 8   1   1	5 1 D	Propamindine (971 PSMB) ophthalmic solution low calc Pyrex (1508 Jobling) drinks	
	Oxymycin (1515 CD) T5	, ,	baby set 118 0 17 0 15 4 Rosedale (2	
	syrup 20z 6 9ea —	_	teeding bottle 4oz 15 4 — 111 bubble b	ath
	tablets/	_	measuring jug pt 41 3 4 0 5 6 shampoo	Pack 25 0 6 3 25 0 6 3
	capsules 100 104 6ea — 250 259 0ea —	_	Ouickles (451 F& 1) 19 5 0 7 3 Rub-A-Dub	(1160 Solport)
	250 259 0ea — 500 515 0ea —	= =	Baby Quick	
	1000 1020 0ea —	_	Raphael (386 Douel) loofah an	d
D	Pal (667 JCL) camera M4 JBI		Cologne	
	Panok (142 BML)	2 2	for men 2oz 13 8ea 3 5ea 25 0 Rubis Pom	padour (1407 Jaccaz)
D	tablets 18 18 0 —	2 3	80z 40 6ea 10 1½ea 75 0 nail-polis	
	Paracodol (1530 Fisons)†		Rapitard (436 Evans) †s7	termohlen) (386 Douek)
	tablets 100 14 6ea Parpanit (501 Geigy)		10 mils 61 6 — 6 10 cotton w	rool
	tablets†		80 units/mil bags	15 gm 7 3 — 36 gm 12 0 —
	forte†s4B Pedelene (974 Pedelene)		10 mils 117 0 — 13 0 Rational Diet (1536 RDP)	75 gm 21 6 —
	antiseptic		SeaGreen	110 gm 30 0 —
	solvent 16 8 4 4 Penicillin-V (1490 IAPS) TS	2 6	tablets 100 44 0 _ 5 0 Salter (109) 300 118 0 _ 13 6 baby scal	les 50DP — —
	Comprimettes 125mgm		Rayglo (333 Cupal)	50B — —
	100 24 6ea — 200 47 6ea —	_ D	chronic catarrh syrup 3 oz dietary s iodised lozenges	cales 18D — — —
	500 116 6ea —		killpain liniment weighing	machines
	250mgm 50 25 0ea —	_	Raywarp (1033 Raywarp) Windso hair bands and headliners Salvelox (1	or 203 — — <b>32</b> 7 WLL) (distributors 1524 Cher
	100 48 6ea — 250 117 6ea —	_	Bouffant 52 6 5 2 6 11 Samaritan	(153 BSC)
D	Pentax (1027 Rank)		Capuchino 52 6 5 2 6 11 toilet ro Easi Dri 44 9 4 4 5 11	
D	Penti (1136 Silber) existing entries Penti (1136 Silber)		Flora Cap 52 6 5 2 6 11 Samella (61	(6 doz) 0Maw) sanitary towels
	camera	159 6	Gipsy Bandeau 44 9 4 4 5 11 No. 0 Glamour Band 29 8 2 11 3 11	150-03 19 5 —
	case — — 2	239 6 19 9	Koolie 44 9 4 4 5 11 No. 1	150·00 21 8 — 150·01 23 9- —
	Personality (31 AP (distributors 1054 R&A))	., .	Reade (1036 RB&C) soluble	19 6 —
	turtle oil bath soap 17 8 4 5	2 6	17 9 4 5 2 6 D Sauze (317 C	CS) entire entry
	soap 1/8 4 5 toilet 10 8 2 8	2 6 1 6	Red Ring (333 Cupal) Savion (649 hospital	
	Petal (153 BSC)		diarrhoea mixture nospital nospital nospital centra	te I qt 15 lea 🕳
	toilet tissue 2 roll 22 5 — $(1\frac{1}{2} doz)$	_	Red Roses (1355 Yardley)	l gal 45 Oea — 5 5I) electric shavers
	Phenoda (179 BDH)	D	Red Star (177 RDS) cordless	210GE 189 11ea 46 3ea
	solution 5oz 18 6 4 7½ 10oz 27 9 6 11½	2 9	Regula (980 Photopia)	own M100 77 8ea 18 llea
	Pinaud (984 Pinaud) (distributors 451 F&J)		SF R61 — 439 9 Magna	
	lipstick slimline 37 8 9 5 Plaisir (Raphael) (386 Douek)	5 6	flash unit	
	bath oil 64 0 16 0	9 6 D	camera I. K.B. R24 — s/v.	201DE 126 6ea 30 10ea
	loz 16 4ea 4 1ea eau de toilette 1oz 11 4ea 2 10ea	30 0 21 0	Olymatic 1&111 — — t/v.	201DGE 139 3ea 33 11ea
	2oz 19 6ea 4 10½ea	36 0	Sprinty II R20 masset	
	4oz 33 6ea 8 4½ea atomiser 27 0ea 6 9ea	63 0 D	flashgun	
	perfume	19 6 D	variant S R29 — — Taclai tiss	12 two ply
	‡oz 19 0ea 4 9êa	35 0 52 6	Redux (1560 JSPD)	king size
	refill 20 8ea 5 2ea	38 0	Replique (Raphael) (386 Douek) man's siz	(2 doz)
	de luxe ½oz 41 0ea 10 3ea	75 0	loz 16 4ea 4 1ea 30 0 Sea Witch	(509 Gibbs)
	loz 62 6ea 15 7½ea 1 2oz 114 0ea 28 6ea 2	210 0	eau de toilette loz 10 4ea 2 7ea 19 0 hair colo 2oz 18 2ea 4 7ea 33 6 Secto (333	
	soap toilet (3) 15 2ea 3 9 <del>1</del> ea	27 0	4oz 31 Oea 7 9ea 57 6 aerosols	
D	Plisson (386 Douek) all shaving brushes		acomiser 501 11 104 0 1204 15 1	ay entire entry  36 6 —
D.	Pomeroy (563 Hampshire) entire entry		perfume	68 6 <b>—</b>
D	Pomp (365 Demuth (distributor 1054 R&A)) Ponderax (1123 SLL)		atomiser \$0x 22 8ea 5 8ea 42 0	107 3 — proofer 68 6 —
D	(distributors 785 Macarthy) (distributors 1156 Farillon)			ciller 42 6 —
			10z 14 6ea 3 71/2ea 27 0 Biosec	t t food 13 10 —
	Portia (1160 Solport) actinotherapy goggles		plne cone foz 20 4ea 5 lea 37 6 D contin	uous action sprays
	child 16 0 —	2 0	de luxe ½oz 33 0ea 8 3ea 60 0 DDT	23 0 —
	adult 20 0 — pumice stone 6 0 1 6	2 6 10½	20z 87 0ea 21 9ea 160 0 D garden s	yringe
	sponge bag	_	soap toilet (3) 15 2ea 3 9½ea 27 0 powder	insecticides ose powder
	Portyn (938 PD) 12 0 3 0	19 D	talc 10 Oea 2 6ea 17 6 all purpo Resinol (1101 Sangers) all products D p.v.c. co	ntainer
	Templets 15 60 0 —	7 6	Retzocreme (867 DuM)	4oz
	100 30 8ea — Prakti (1136 Silber)	46 0	iar 19 Oea 4 9ea 35 O	
	camera 35mm — — 6	644 7	jar 28 9½ea 7 2½ea 55 0 plastic p	uffer 4oz 17 0 — 8oz 26 3 —
D	Praktica (1136 5ilber) existing entries	63 0	Reudel (655 ICC) bath salts  18 11 4 9 2 6 D ant killer	r powder
	Praktica (1136 Silber)		Revion (1052 Revion) p.v.c.	4oz
	camera VF body only — — —	624 2	cream 37 0 9 3 5 6 cattle los	183
	VFB		translucent 50 6 12 7½ 7 6 powde	er 11b 33 0
	body only — — 7	773 5 79 6	frosted 50 6 12 7½ 7 6 Secto-Kil (	333 Cupal) press gun
			Die institution of the point of	

eschal (1124 Sen	M) 22	6	S 71	3 I		Topnote (1157 S) shampoo			Watalux (980 Photopia) flash unit W15 — — 36 11
orn planes Iylan Parenters				, ,		lacquer			X2 W63 — — 58 6
atonil (252 CIB	BA)					removing 4 0 1 Towle's (179 BDH)—	0 /	7	Watersprite (1160 Solport) face cloth G296 17 6 — 2 3
ablets de Pantene (26	25 I Chri:	sty)				chlorodyne loz 13 9 3	51 2 (		G295 18 0 — 2 3
hair spray	68	ó	17 0	9 11		120z 29 3 7 : Traka (1490 IAPS) †	3 4 3	3	G300E 18 6 — 2 3 Wellcome (208 BW)
os (621 Horlicks ablets 10		0	_	6 9		lozenges 12 15 0 4	0 2 3	3	fowl pest vaccine
100 ot (786 MacDona		6ea	_	44 3		100 54 0 13 0 1000 37 0ea 9 3	Bea —		50mils 63 0 — 7 0 250mils 25 6ea — 34 0
anitary briefs	aid)				_	syrup 80oz 52 6ea 13	lea —		500mils 49 6ea - 66 0
chic ex. large in (786 MacDona	99 1d) sai	4	6 7½	7 11	D	Tresor (726 Lancome) existing entries Tresor (726 Lancome)			Wonder Set (1531 WS) large 40 6 9 7½ 5 6
ize I	6 10	-11	-	1 2		eaux parfumee 624l — —	50 (	n D	old size Yalcs (752 Lenton)
2	12 21 12 24		=	2 3 2 8	-	6242 — —	84 (	)	support socks
ks (781 Lusty)						6243 — — — perfume presentation	140 (	O .	for men pr. 12 6ea — 18 9 Springtime support hose
heumatism tablets	50 16	0	4 0	2 4		de luxe	225 (	^	seamed or
wfire (563 Hamp	shire)					diamond 62202 — — — 62203 — —	335 ( 4 <b>35</b> (		seamless pr. 19 8ea — 29 6
old cream ne (625 Hosezer	ne) san	itary to	wels			gold-and-white decor	45 (	0	AMENDMENTS TO KEY
soluble	1 21		_	2 3		debutante 62129 — — — handbag			TO SUPPLIERS
h-Tan (333 Cup	2 23 pal)	5	_	2 6		size 6219 — — 1/3 oz 6218 — —	45 ( 52 (	0 6 29	Alfonal = Alfonal, Ltd., Church Road, Worcester
erosol spray or f	foam	^		7 6		½oz 6211 — —	84 (	0 ,	Park, Surrey, Derwent 3877.
erosol spray 50 sil (878 Napp) o			13 6	, ,		1oz 6212 — — 2oz 6213 — —	135 0 240 0	0 13.	5 TB=Thomas Blake & Co. 20 Blatchford Close, Horsham, Sussex.
tts (1175 SPL)						3½oz 6214 — —	360 (	0 17	6 BCLO=British Cod Liver Oils (Hull and
	ly 41 (4 d	OZ,	_	1 1		10z 6212 — — — — — — — — — — — — — — — — — —		6 '	Grimsby), Ltd., Marfleet, Hull, Yorks. Hull 75234 9 CM=Charton Meads (Pest Control), Ltd., 21
larg	ge 37	6	_	1 111	_	metal 590 — —	12 .	3	Station Road, Gosforth, Newcastle-on-Tyne 3. Gos-
kenn	(2 d el 52	6	_	5 6	D	Tube-o-Dents (177 BDS) Uneeda (821 McGlashan)		25	forth 53188. 9 Choodler=Choodler, Ltd., Ryston End, Downham
(509 Gibbs) oth-paste giar	nt 37	2	9 31/2	4 11		headache	71 2 /	. 1	Market, Norfolk. Downham Market 2395.  3 Clippa-Safe = Clippa-Safe (Hygienic Safety Har-
Kosal (1336 W	J&C)					32 52 0 13	o	3 !	ness), Ltd., Lanthwaite Road, Clifton, Nottingham.
owder 100gi	m 84 50 84		21 0 1 0	11 3 11 3		72 118 0 29 Urolucosil (1310 WW)	6 :		Nottingham 211899. D Deakin=G. Deakin & Hughes, Ltd., 31 Somerset
udents (198 B8					D	tablets 25			Street, Abertillery, Mon. Abertillery 2212.
ental stimulators		11	9 2∄	4 101		Uromide (291 Consolidated) †s4B tablets 25 7 lea 1	91ea —	- 386	6 Douek = E. M. Douek & Co., Ltd., 18 Baker Street, London, W.L. Welbeck 1309.
ilk (509 Gibbs) eam magnum	shamp 29		7 3분	3 11		Utella (1414 Strange) hair wavers		400	JD&B=Jules Duval & Beaujoys, Ltd., Great West
nic magnum	29	1	7 $3\frac{7}{2}$	3 11		and curlers 13 4 3	4 2 (	0 45	Road, Isleworth, Middlesex. Isleworth 8224.  I F&J=Fassett, & Johnson, Ltd., Oxford Works,
rsoft (563 Ham ubble bath	npsnire 2	6	71	4		Valium (1704 Roche) syrup 2mgm/5mils			Worsley Bridge Road, London, S.E.26. Beckenham 5007.
ir spray No. 3	33 2	6	8 4½ 7½	4 6		Vaseline (256 CPL)	3 2	<sub>2</sub> 50	3 G=Geistlich Sons, Ltd., P.O. Box 37, 33 Water-
llcum			* 2			(2 doz) (2 do	z)	74	gate Row, Chester. Chester 20592.  B L&F=Lehn & Fink Products, Ltd., 21 Conduit
thesin (413 Lil ompound crear						jar 43 8 I0 (2 doz) .(2 do		,	Street, London, W.I. Mayfair 7397.
bron (1091 Ryb						dispenser refill 32 9 8	2 4	0	7 MPS=Mayfair Photographic Supplies (London), Ltd., Kildare Close, Ruislip, Middlesex. Pinner 8856.
mixture 4d	oz 30		7 6	4 41/2		(2 doz) (2 do	oz)	04.	3 ML = Miles laboratories, Ltd., Stoke Court, Stoke Poges, Bucks. Farnham Common 2151
bmetrine (109 bid (208 BW)	8 Sand	oz) †s41				27 4 6 petroleum jelly	10 3	<sup>7</sup> 87:	2 Murray = A. J. Murray & Co., 57 Gilmour Street,
uinidine sulpha				22 0		yellow jar 18 9 4	8 2	6 88	Eaglesham, Glasgow. Eaglesham 419. 7 New Era = New Era Laboratories, Ltd., 87 Saffron
0·2gm IC yl (\$01 Geigy)	+-4B	sea	_	22 0		white 20 8 5 37 6 9	2 2 5	<b>,</b>	Hill, London, E.C.I. Chancery 1481.  O5 Saville=Saville Perfumery, Ltd., Parkville House,
pit (1221 That ttle	wpit) 24	3	_	2 9		shampoo cream sachet 16 5 4	2	0	Bridge Street, Pinner, Middlesex. Pinner \$868.
with cleaning						medicated sachet 16 5 4		o II:	99 Sunbeam=Sunbeam Electric, Ltd., Radnor House, London Road, London S.W.16. Pollards 8671.
pad dril (117 BPL)	24	3	_	2 9	D	Vastarel (1123 SLL) (distributors 785 Macarthy)		15	00 MM&1 = Minnesota Mining & Manufacturing
asal spray x (107 BH&L)		0	12 0	7 0		(distributors 1556 Farillon) V-Cil-K (413 Lilly) TS			Co., Ltd., 3M House, Wigmore Street, London, W.I. Hunter 5522.
ne (1490 IAPS)	) †					Pedipacs 125mgm sachet		15	49 Matthews = Matthews Laboratories, Ltd., Glansevern Hall, Berriew, Montgomerys. Berriew 205.
ills 25 Sweets (1559	50 22 9 TS)	Oea	5 6ea	_		12 4 4ea — 144 50 0ea —	75 G	ň 15.	53 Contactasol = Contactasol, Ltd., 70 Wigmore
stributors 436	Evans	)				Vetaplasme Langlebert (1336 WJ&C)		. 15	Street, London, W.I. Hunter 4861. 54 AC&5=Alexander Carus & Sons, Ltd.,
barley fruits, barley sugars,					D	66 0 16 Vibrona (466 FF)	6 9		Hoddlesden Mills, Darwen, Lancs., Darwen 1383.
putter pieces, malted milk						Vibrona (400 JD&B) tonic wine 10oz 79 0 —	. 8	6	55 Corsectric = Corsectric, Ltd., 6 Cadogan Lane, London, S.W.I. Belgravia 8306.
milk toffees,		101	1 43	1 3	D	20oz 144 3 —	15	۱5.	56 Farillon = Farillon, Ltd., Chesham House, Chesham Close, Romford, Essex. Romford 46021.
mint & butters		10}	1 43		5	Victory (I77 BDS) Vinolia (509 Gibbs)	21	15	57 PWL=Pains-Wessex, Ltd., High Port Salisbury, Wilts. Middle Woodford 282.
sticks		loz)	2 2 (6 doz)	4		baby soap 9 1 2 soap toilet 9 1 2	3½ / 3½ /	1 15	58 MCL = Mayfair Chemicals Ltd., 40 Shepherd Street, London, W.I. Grosvenor 3184.
og (1175 SPL)				111		bath   3   1 3 Vitavel (1285 Vitamins)	6 1	15.	59 T5=Tonic Sweets, The Toffery Laburnum Avenue.
	dy 36	doz)	_			folic acid tablets			Whitley Bay. Whitley Bay 20927, 60 JSPD=Jean Sorelle Ltd. (Promedico Division),
lar	ge `32 (2 ¢	8 doz)	_	/ 8½		5 mgm 100 28 0 — Wander (1303 Wander)	_	:	21 Turle Road, London, N.4. Archway 6727.
(st (1157 5)				2.11		diabetic canned	- 2		61 MD=Michael Denham, Ltd., Catherine Wheel Road, Brentford, Middlesex. Isleworth 8920.
freshener	21	7 0	_	2 11		fruits 8oz 18 0 -			
N CO			-	THIS	3	WEEK'S CI	HAR	1G	ES
			-						
		Prices	are giv	en in th	10 5	equence: Trade price per doz./	nurchase	tax De	er doz./retail price

Prices are given in the sequence: Trade price per doz./purchase tax per doz./retail price (bold if maintained), thus:—17s 11d/4s 3d/2s 3d. A dash — in any column indicates that the manufacturer has provided no figure appropriate to that column.

a i								•
7	1113 S&B)							
	de Cologne							
	riginal shape							
п	No. II	401	2	100	31/2	58	6	
	No. 812	288	0	72	0	42		
	No. 9119	185	2	46	31	27	0 6 6 6 6	
	No. 815	120	0	30	0	17	6	
	No. 816			16	3½ 5	9	6	
	No. 15W	133	9	33		19	6	
	No. 16W	78	10	19	81	- 11	6	
	rial size				-			
	No. 828	25	9	6	S	3	9	
1	atch shape							
1	No. 843	37	9	9	5	5	6	

A = Price advanced R = Price reduced ■ = New entry D = Delete C = Correction	-

wicker	No. 1 ( No. 2 : No. 3 :	360		162 90 .50	0	95 52 29	0 6
flat shape	in						
carton No flat shape	. 127/T	51	5	12	10	7	6
wicker	111						
No.	127/W	56	7	14	2	8	3
decanter	No. 554%	219	5	54	10	32	0
spray set	. 700		_				
1	No. 782	I Z I	7	30	- 5	17	7

٥		30	LLLLIV		or to the ch	EWIST	11111	DRO	00131	July 10, 1
	bath cubes				Esobactulin (1166 Southor	n)			Mercardan (938 PD)	
	No. 9115/8 30 10	7 8½	4 6	•	(distributors 430 Eucryl			D	ampoules I mil 12	
	hand cream No. 9107 18 10	4 81	2 9	•	Fresh Ups (1372 CCL) 100 28	0 -	- 3	6 A	Morny (862 Morny) bath salt	
	No. 9106 30 10	7 81/2	4 6		300 70	0 —	- 8	9	tablets 12 451 -	_
	matt creme tube			D	Fulcin (649 ICI) tablets 250 mgm				perfume flaskette 132 —	_
	No. 9105/12 12 0	3 0	1 9	A	Gevacolor (508 Gevaert)				pursette 133 —	_
	No. 5055/9111 20 7 jar No. 9110/13 37 9	5 2 9 5	3 0 5 6		roll film reversal R5, 120 and				soap toilet (3) 520 — bath (3) 511 —	= 1
	soap (3) No. 8859 61 9	1Ś Š	9 0		620		- 19	10	visitors (6) 512 —	=
	solid Cologne No. 1100 34 3	8 7	5 0		127 negative N5, 127		- 18	8 D	Nephril-R (969 Pfizer) tablets P.K. (1223 TWC)	
	talcum No. 5316 27 5	6 10	4 0		120 and 620		. 9	0	chewing gum 6 7	1 111
	Acdrile (117 BPL) vials 250 mgm 6 17 86	a 4 5ea	30 11		35-mm film reversal R5 cartridge				P.M.T. (1372 CCL) (40 pkt	s) (40 pkts)
•	Angel Face (256 CPL)				20 exp.		- 23	10	pot chair 25 0	ea <b>—</b> 3
R	mascara compact 14 0	3 4	1-11		36 exp. amateur cine film revers		- 34	7 A	Ponds (256 CPL) talcum Dream-	
D	eye shadow stick face powder				R5, 16 mm,	sai		^	flower 78 gm 20 5	4 11
C	Arrowmint (1223 TWC) chewing gum 6 7	111	3		100 ft. double 8 mm,		- 75	5 A	economy 220 gm 28 6 Rhine Lavender (1113 5&B)	6 91
	(40 pkt				25 ft.		- 27		bath cubes 9117 30 10	7 81/2
D	Ayrton (78 A5&Co.) honey (clear or				Gevapan (508 Gevaert) 27, roll films, 127,	, 30 and 33			lavender 1027 41 2 1026 72 0	10 3½ 18 0 I
R	set) ½lb. 21 0	_	2 3		120 and 620		. 3	9	1025 120 0	30 0 i
۸	Ilb. 35 0	_	3 9		No. 36, 120 35-mm film,		- 4	2	solid lavender 1010 39 5	9 10
A	Carat (1113 5&B) perfume 3198 44 7	11 2	6 6		cartridge			D	Ronson (1079 Ronson) existing	
	3196 257 2	64 3½	37 6		36 exp.		- 7	4	Ronson (1079 Ronson) electric tooth-	
	perfumed Cologne 1417 49 9	12 5	7 3		daylight refill  36 exp.		. 5	9	brush 70 6	
	1416 92 7 1415 161 2	23 2 40 3 <del>1</del>	13 6 23 6		darkroom refill 36 exp.		. 4	5	portable 52 30 electric razors	ea IIIIea 8
	spray set 2676 150 10	40 3½ 37 8½	22 0		continuoues length,		. ,	2	model 21 87 7	
Α	Coldrex (976 P5&T)	6 4	3 6		5 metres		- II - 35	10	200 93 100 33 112 76	
	24 45 10	10 11	6 0		17 metres dia. direct reversal		. 35	3	400 140 06	ea - 35 Oea 23
D	Conti Color (1372 CCL)	0.001)			cartridge 36 exp.		17	2	Tiara 852 87 76 hairdryers 66 85 76	
•	Continental Cosmetics (137) eye pencil	Z CCL)			amateur cine film, 26, 3	 2,	- 16	3	695 110 26	ea 27 7ea 17
	automatic 43 6	10 4 3 5	6 9 2 3		16 mm, 100 ft.		- 58	0	696 134 96 Royal Sweden (1412 Jackel)	ea 33 8ea 21
	refills 14 6 lip/eyeliner	3 3	2 3		double 8 mm, 25 ft.		. 22	7	hair brush ladies	
	brush 22 6	5 4	3 6	D	Hardy Amies (532 Goya) all	products		•	all round radial birch	
	mascara/eyeliner brush 28 II	6 10	4 6		Jock (1419 RW&5) all meat small 4doz 41	5 _	. 1	1	1988 144 0	36 O 2
	mascara/lip	8 5	5 6		large 2doz 37	6 —	- 1	11½ D	5an-5at (107 BH&L) Scheriproct (973 Pharmethics	1c\+c T5
	brush 35 4 perfume batons 33 2	7 8	5 6 5 6		kennel pack Idoz 52	6 —	. 5	6	suppositories 120 56 66	
	trio 26 0	6 2	4 6	Α	Johnsons (672 Johnson)	8 4 1		D	Shostakovsky Balsam (1488	I C&C)
	Cooper's (293 FC) dessert fruits 190z 43 2	_	4 6		baby gripe mixture 19 oil 26	10 6	I 2 8 3	9 9 A	100 gm 26 0e	
D	Coryse 5alome (1372 CCL) exi	sting entries			soap 8	1½ 2 7 3	0½ I 2 I	I D	80 gm Swedish (1372 CCL)	
	Coryse Salome (1372 CCL) Creation, Epilogue,				Kattomeat (1419 RW&5)	/ 3	2 1	8	bath oil	
	Opera, Peche Permis,				meat and liver	2	,	0	capsules 10 78 9 (3 doz)	18 9 ) (3 doz)
	eau de cologne laoz 5 4e		10 0		Kennomeat (1419 RW&5)		. ,	A	Tosca (1113 5&B)	(5 402)
	2 <sub>4</sub> oz 8 7€		16 0 25 0		meat and liver	5 _	,	,	eau de Cologne	4 01
	4½oz 13 46 9oz 21 56		40 0		small 4doz 41 large 2doz 37	6 –	: ;	111	1248 18 10 carton 1217 41 2	4 8½ 10 3½
	perfume	7 0	7 8		Kolantyl (838 MN)			_	1216 72 0	18 0 I
	miniature (12) 32 2 golden	7 8		R	gel 32oz 15	. 8ea —	- 23	6	1215 120 0 2887/T 51 5	30 0 1 12 10 30 5 1 9 5
	window 4cc 5 10e		11 0 22 0	С	Lash Magic (1372 CCL) 92	6 22	0 13	9	aerosol 1185 121 9	30 5 1
	flacon sac ‡oz 16 10e	a 4 0ea	31 6	•	Lentheric (753 Lentheric)				perfume 9100 37 9 3006 78 10	19 8 1
	luxe ovale ½oz 37 66 loz 59 16		68 0 110 0		body lotion make-up case		. 21	0	3005 150 10	37 8½ <b>2</b> 9 10
	2oz 93 8e	a 22 3ea	175 0		de-luxe		. 134	6	solid Cologne 9114 39 5 T.T.T. (1372 CCL)	9 10
	grand luxe 2oz 126 86	a 30 lea	236 0		Onyx after-shave			•	adhesive 8 0	-
	flagon filigrane 10cc 39 7e		73 6	,	balm		. 7	6 •	Volidan 21 (179 BDH)†s4B	
	aerosol 9cc 30 0e refill 16 10e	a 7 lea	56 0 31 6		anti-perspirant		. 8	6	tablets 21 80 0	_
	toilet water $\frac{7}{8}$ oz 5 10e	a I 5ea	11 0		hair cream	= =	. 7	6	Wasp-eze (179 BDH) aerosol for stings	_
	l≩oz 9 le 3∮oz l3 lle		17 0 26 0		Royal Rose mist		. 12	6 C	Woltz (1372 CCL)	
	. 7oz 22 6e		42 0		traveller	= =	16	6	manicure set No. I 89 II	21 3 I
٨	Cutex (493 Gambles) slipstick 41 0	9 101	4 6		Tiara	_	. 32	6	No. 1 89 11 No. 2 103 2	24 6
А	slipstick 41 0 Darvi (1372 CCL)	) 10 <sub>4</sub>	7 0		bouquet mist perfume purse			С	Wrigley's Spearmint (1223)	
	false nail	_	2 0		flacon traveller	= -	24		chewing gum 6 73 (20 pkt	}   11½ s) (20 pkts)
C	Diafrutes (994 P&M) 17 3	2 7	2 3		Tweed				(25 pre	, , , , , ,
C	Doublemint (1223 TWC)	111	. 6		bouquet mist traveller	= -	. 18 . 17			
	(20 pkt	(20 pkts)	0		Lincocin (1263 Upjohn)T5		1/		AMENDMENTS AND	ADDITION
-	Emplets (938 PD)			•	syrup 125 mgm/					
D A	sodium chloride gr. 15½ dp. 10 Enervyte (622 H5GP)	00				0ea —	-	-	TO KEY TO SUI	
	baby & invalid		3 9		Linc-o-lin (657 IL) shampoo beer				2 Toni = Toni Co., Hawley Lan	e, Farnborough, F
	food IIb. 36 0 wheat germ	_			tube 2 <sup>1</sup> / <sub>4</sub> oz 20	7 5	1 <sup>3</sup> / <sub>4</sub> 3	U 151	farnborough 2011. 5 CD≕ <b>Chelsea Drug &amp; C</b>	
	food 4oz 28 0	-	3 0 5 6	٨	Meeson (1458 MLL)			3	110 Old Brompton Road, Lond	
	8oz 52 0	7	3 6	Α	massager		4	0 4	1321.	

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